Bryn Mawr
College
Library



Digitized by the Internet Archive
in 2011 with funding from
LYRASIS Members and Sloan Foundation

http://www.archive.org/details/brynmawrcalendar6263bryn

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH

1968 / 1969

Revised 2/69

BRYN MAWR COLLEGE

Graduate Department of

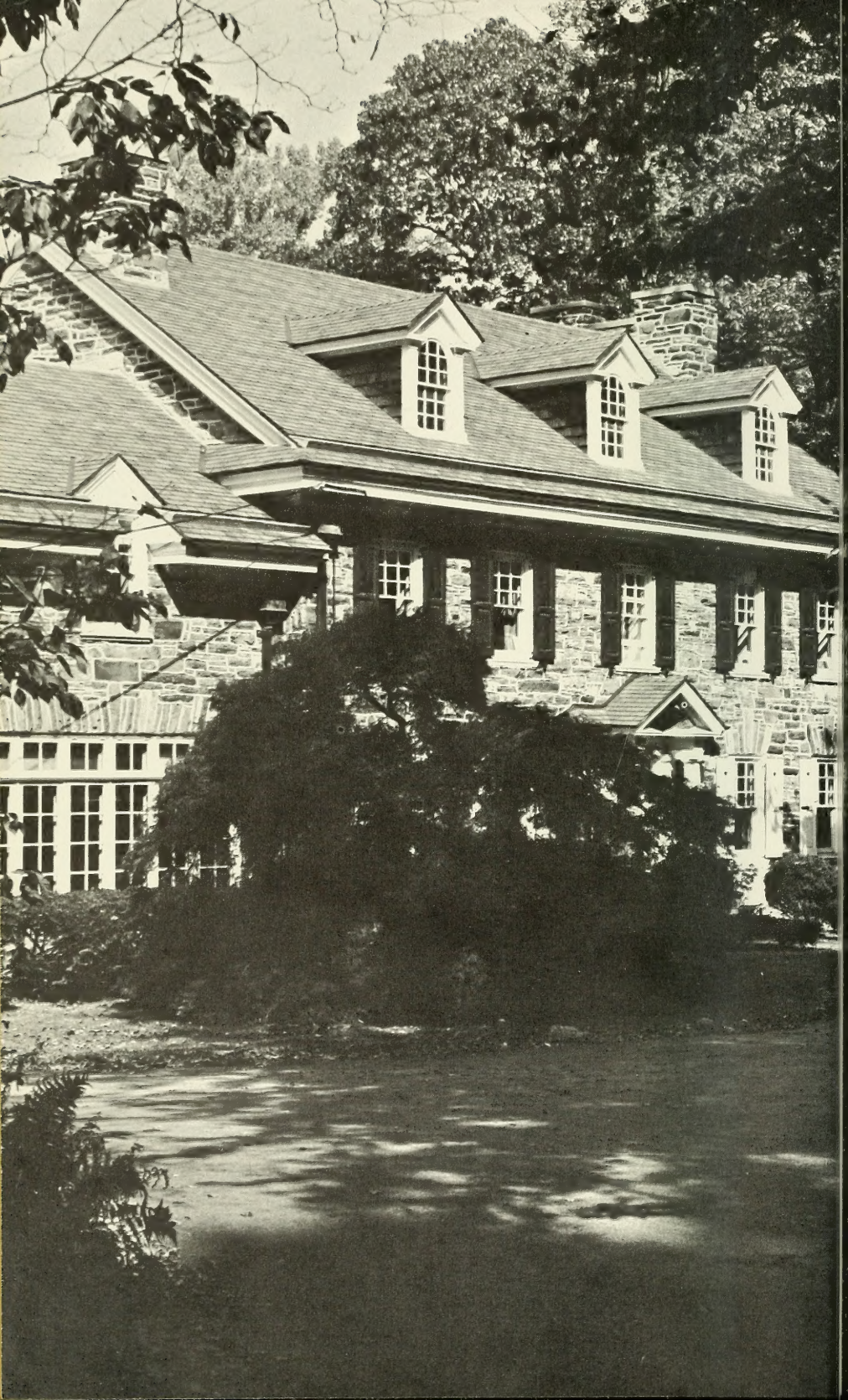
SOCIAL WORK

and

SOCIAL RESEARCH

of Bryn Mawr College

1968/1969



Bulletin of the
Carola Woerishoffer
Graduate Department of

SOCIAL WORK

and

SOCIAL RESEARCH

of Bryn Mawr College

1968/1969

815 NEW GULPH ROAD
BRYN MAWR, PENNSYLVANIA

Archives
HAA
1968-69
sup. 2

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.

Contents

Trustees of the College	5
Advisory Committee	6
College Officers	6
Faculty and Teaching Staff of Graduate Department of Social Work and Social Research	7
History	9
Admission	12
Programs and Degrees	14
Master of Social Service	14
Doctor of Philosophy	16
Courses of Study	19
Program for the Master of Social Service	19
Program for the Doctor of Philosophy	24
Field Instruction	29
Fees	32
The Graduate Residence Center	34
Fellowship, Scholarships and Traineeships	35
Loan Funds	40
Library	41
Health	42
Student and Alumni Organizations	44
College Calendar	45

The Carola Woerishoffer Graduate Department of Social Work and Social Research offers a basic two-year program leading to the degree of Master of Social Service, and an advanced program leading to the degree of Doctor of Philosophy.

The Master's degree program is based upon the premise that preparation for social work practice and research requires a core of knowledge as well as skill in the application of this knowledge. A coordinated curriculum of concurrent courses and field instruction is provided.

The Doctor of Philosophy program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular. The curriculum is intended for full-time study; however, a few courses may be opened for part-time study to holders of a Master's degree from an accredited school of social work.

The Trustees of Bryn Mawr College

President
J. Edgar Rhoads
Vice-Presidents
Millicent Carey McIntosh
Elizabeth Gray Vining
Treasurer
John E. Forsythe
Secretary
Millicent Carey McIntosh
Assistant Treasurer
J. Tyson Stokes
Assistant Secretary
Katharine Budd Whelihan

Trustees
Millicent Carey McIntosh
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes
Edmund B. Spaeth, Jr.
Thomas B. Harvey, Jr.

The Board of Directors

Chairman
Henry Joel Cadbury
Vice-Chairmen
Eleanor Little Aldrich
Elizabeth Gray Vining
Treasurer
John E. Forsythe
Secretary
Millicent Carey McIntosh
Assistant Treasurer
J. Tyson Stokes
Assistant Secretary
Katharine Budd Whelihan

Directors
Millicent Carey McIntosh
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood

Directors (Cont'd)
Lelia Woodruff Stokes
Edmund B. Spaeth, Jr.
Thomas B. Harvey, Jr.
Katharine Elizabeth McBride
Eleanor Little Aldrich
J. Tyson Stokes
Phyllis Goodhart Gordan
Alice Palache Jones
Agnes Clement Ingersoll
Lewis N. Lukens
Mary Durfee Brown
Alumnae Director, 1963-8
Anne Woodward Pusey
Alumnae Director, 1964-9
Elizabeth Pearson Horrocks
Alumnae Director, 1965-70
Margaret Tyler Paul
Alumnae Director, 1966-71
Sue Mead Kaiser
Alumnae Director, 1967-72
By invitation
Barbara Auchincloss Thacher
President of the Alumnae Association

Advisory Committee for The Department of Social Work and Social Research

Chairman: Thomas B. Harvey

Arlin M. Adams
Mrs. Curtis Bok
Charles P. Cella, Jr.
Owen R. Davison
J. Grey Emmons
Andrew G. Freeman
Mrs. Thomas A. Hawkins
Miss Helen Herrmann
Hobart Jackson
Dr. Elizabeth Lawder
Norman V. Lourie
C. F. McNeil
Ralph Ormsby
Miss Mary Poole
William L. Rafsky
Evan Randolph, Jr.
Mrs. Roger Scattergood
Mrs. Karl R. Schoettle
Mrs. Elias Wolf
Mrs. Robert M. Woodbury

Ex Officio:

Miss Katharine E. McBride
Mrs. Richard W. Foster
Bernard Ross
Goetz Mayer
Miss Ellenor Morris
Mrs. John S. Price

Officers of the College

President of the College:

Katharine Elizabeth McBride, PH.D. LL.D. L.H.D. SC.D.
Office: Taylor Hall

Dean of the Graduate School:

Elizabeth Read Foster, PH.D.
Office: The Library

Director, Graduate Department of Social Work and Social Research:

Bernard Ross, PH.D.
Office: 815 New Gulph Road

College Physician:

Frieda W. Woodruff, M.D.
Office: The Infirmary

Librarian:

Janet Margaret Agnew, B.L.S. M.A.
Office: The Library

Faculty and Teaching Staff

Carola Woerishoffer Graduate Department of Social Work and Social Research

Bernard Ross, *Professor and Director of the Department*
A.B. University of Oregon, M.SC. (Soc. Adm.) University of Pittsburgh, PH.D. University of Michigan

Philip Lichtenberg, *Professor*
B.S. M.A. PH.D. Western Reserve University

Katherine D. K. Lower, *Professor*
B.A. M.A. PH.D. University of Wisconsin

Martin Rein, *Professor*
B.A. Brooklyn College, M.S.S.W. Columbia University,
PH.D. Brandeis University

Jean Haring, *Associate Professor*
A.B. Albion College, M.A. Ohio State University, M.S.W. University of Michigan, D.S.W. Western Reserve University

Jane C. Kronick, *Associate Professor*
A.B. Barnard College, M.S. PH.D. Yale University

Jeanne C. Pollock, *Associate Professor*
B.S. M.S.W. University of Pennsylvania

William W. Vosburgh, *Associate Professor*
B.A. Yale University, M.A. University of California at Los Angeles,
PH.D. Yale University

Greta Zybon, *Associate Professor*
B.A. Syracuse, M.S.W. State University of New York at Buffalo,
D.S.W. Western Reserve University

Merle Broberg, *Assistant Professor*
B.A. University of Minnesota, M.S.S. Bryn Mawr College

Ronald M. Feinstein, *Assistant Professor*
A.B. Roosevelt University, M.S.W. University of Illinois

Sally E. Hollingsworth, *Assistant Professor*
A.B. M.S.S. Bryn Mawr College

Ivy Bennett, *Lecturer*
B.A. B.S.W. University of Manitoba, M.S.S. Smith College

Dolores E. Melching, *Lecturer*
B.A. Temple University, M.A. University of Chicago

Ruth O. Stallfort, *Lecturer*
B.S. M.S.S. Simmons College, Third-year Certificate Columbia University

Alice Whiting, *Lecturer*
B.A. University of Iowa, M.S.W. University of Michigan

Merilyn B. Woods, *Lecturer*
B.S. Cornell University, M.ED. Temple University, PH.D. Bryn Mawr College

Dolores Norton, *Instructor*
A.B. Temple University, M.S.S. Bryn Mawr College

Solomon P. Gethers, *Field Instruction Consultant*
A.B. Temple University, M.S.S. Bryn Mawr College

Albert A. Johnson, *Field Instruction Consultant*
B.S. Wisconsin State University, M.S.W. Tulane University

Edna Robinson Kelly, *Field Instruction Consultant*
A.B. Ohio State University, M.S.S. Bryn Mawr College

Elizabeth G. Preston, *Field Instruction Consultant*
A.B. Swarthmore College, M.S.S. Bryn Mawr College

Augusta W. Schiff, *Field Instruction Consultant*
A.B. Denver University, M.S.W. Smith College

Lois R. Taber, *Field Instruction Consultant*
A.B. Mt. Holyoke College, Certificate (2-year) University of Pennsylvania

Nathan Zirl, *Field Instruction Consultant*
B.A. Long Island University, M.S.W. Columbia University

Rachel D. Cox, PH.D., *Professor of Education and Psychology*

Eugene V. Schneider, PH.D., *Professor of Sociology*

Arthur C. Huntley, M.D., *Visiting Lecturer*

Philip Sagi, PH.D, *Visiting Lecturer*

John H. Vanderzell, PH.D., *Visiting Lecturer*

History of the Department

The Graduate Department of Social Work and Social Research was opened in the fall of 1915 as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the Class of 1907. In announcing this new Department, the President of Bryn Mawr College, M. Carey Thomas, stated: "This Department will be known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order to associate in a fitting and lasting way with Bryn Mawr College, to whose endowment she so generously contributed, the name of Carola Woerishoffer."

The Department opened with eight graduate students; no undergraduates were admitted. Under the initial plan, two-thirds of the student's time was given to the study of theory and statistics, the remaining third to "practical investigation," with a half year spent in residence in a social service institution or in a social welfare organization in Philadelphia or New York.

The course of study was planned for one, two, or three years, with three years required for the Ph.D. degree and one and two years for a certificate. The Master of Social Service degree replaced the two-year certificate in 1947.

The Graduate Department of Social Economy and Social Research was the first graduate program of social work education to be offered by a college or university. Its plan of "field work" and its inclusion of work in labor and industrial relations and community organization made it somewhat different from the other early schools of social work; it was nonetheless a program of study for social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Case Work, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students of the Department in these early days

were: The Family Society of Philadelphia, The Children's Aid, the White Williams Foundation, the Big Sister Association, the Young Women's Christian Association, the Criminal Division of the Municipal Court of Philadelphia, the Social Services Department of the University of Pennsylvania Hospital, and various settlements.

In 1919 the Department became one of the six charter members of the American Association of Schools of Social Work. In this period following World War I, social work education was rapidly changing in response to the continuous expansion of social work into new settings. The curricula of the schools, including that of Bryn Mawr, responded to these changes in a variety of ways. At Bryn Mawr, preparation for social case work was expanded and additional courses in public welfare and social legislation were offered. The emphasis on research and social investigation which was central to the early curriculum of the Department continued.

Bryn Mawr had the first doctoral program in social work education, which was soon followed by the doctoral program at the School of Social Service Administration at the University of Chicago. Today almost twenty schools offer such programs.

By 1935 Bryn Mawr was one of twenty-nine schools belonging to the American Association of Schools of Social Work, of which twenty-five were in colleges or universities and only four were independent schools. The precedent set by Bryn Mawr in 1915 in establishing social work as graduate study in an institution of higher learning has now become a requirement for accreditation by the current accrediting body, the Council on Social Work Education, successor to the American Association of Schools of Social Work.

The Department at Bryn Mawr grew gradually from eight students in 1915 to forty-two full-time students in 1955, forty years later. Since 1955 it has more than doubled in size, currently having almost one hundred full-time students. A number of factors have contributed to this expansion: the acquisition of a separate building for the exclusive use of the Department, thus making it possible to admit a larger number of students; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social agencies in the metropolitan area of Philadelphia in providing field instruction opportunities.

There are more than seventy Schools of Social Work accredited by the Council on Social Work Education in the United States and Canada, and new schools are being founded each year. Although many changes have taken place both at Bryn Mawr and in social work education, the vision of those responsible for the design of the Department at its founding has been proven by experience to have been remarkably correct.

The Department now has approximately six hundred living graduates, of whom three-fourths are holders of the M.S.S. degree. Thirty-seven Ph.D. degrees have been awarded. At the time of its founding, the Department admitted only women; since the late 1930's men have been admitted, and during the last five years men have constituted an increasing percentage of the graduates.

Graduates of the Department are located in all regions of the United States and many foreign countries. Their present positions vary within a wide range of governmental and voluntary organizations and agencies and with the length of time since their graduation. They are widely represented in family services, psychiatric services, child welfare, housing and urban renewal, community mental health and mental retardation. Approximately forty-five per cent are executives, supervisors or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its more than fifty years, the Department's graduates have contributed substantially to leadership in both public and private social welfare programs.

Admission

The Graduate Department of Social Work and Social Research at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.[1] Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department. An application fee of $10 must accompany the application.

A personal interview is usually arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment fee of $25 is to be paid to the Comptroller of Bryn Mawr College. This fee is credited to the tuition for the first semester. It is not refunded if the student fails to register.

[1] Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

Courses at the University of Pennsylvania, Graduate School of Arts and Sciences, are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the university is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The university charges a small general fee for the use of the library, a $5.00 library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

Programs and Degrees

Bryn Mawr College awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for field instruction in the following: Child Welfare, Family Welfare, Medical and Psychiatric Social Work, Vocational Rehabilitation, School Social Work, Mental Retardation and Corrections. In Community Organization field instruction is provided in Community Welfare Research and Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, Community Mental Health, and other settings.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree of certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

Social Casework I and II
or
Community Organization I and II
Personality Theory I and II
Social Theory I and II
Social Welfare Policy and Services I and II
Concepts in Research and Statistics I and II
Field Instruction I and II

The courses in the second year are in part determined by the principal area of practice of the student:

Social Casework III and IV
or
Community Organization III and IV
Social Agency Administration
Social Issues and Social Policy
Social Group Work
Social and Physical Factors in Health and Disease
Political and Governmental Processes
Research Seminar
Field Instruction III and IV

In addition second-year students who have had Casework I and II in the first year will take a one semester course in Community Organization in the second year; those who have had Community Organization I and II will take a one semester course in Casework.

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction. Each student's program of study may exceed this minimum. In addition, each candidate must prepare a Master's paper.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The curriculum for the Ph.D. program provides a program of study from which a person may enter one of many careers, depending upon the changing needs and opportunities in the field and the interests and capabilities of the individual. Preparation for research and teaching are central to the goals of the program. Development of a variety of research competencies is encouraged; preparation for teaching in all areas of the social work curriculum, whether for graduate or undergraduate curricula, is also provided. Study for practice, whether in casework, community organization, administration, research or development of social policies and programs, emphasizes theoretical work.

The candidate for the Ph.D. degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program is planned to broaden the student's knowledge of social welfare in general and, through intensive research, to deepen his knowledge in one field in particular. The curriculum includes the following areas of study:

Social Welfare
Theory in Social Work Practice
Social and Behavioral Sciences
Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives pertinent to individual interests of students account for the other half. Electives may be taken in other departments within the College or at the University of Pennsylvania; and special experiences are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students may participate in various phases of research in social work under the direction of members of the faculty, engaged in a variety of research studies.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of

credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Graduate Office early in June.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School during the registration period listed in the College Academic Calendar. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

Students wishing certification to outside agencies must complete a form to be signed also by the Director of the Department and deposited in the Office of the Dean of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the academic year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSION

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I

The organization and growth of social welfare as a major social institution is examined from an historical and philosophical perspective. The organization and distribution of social services is examined at the federal, state, and local levels. Attention is given to the influence of recent economic, social, and demographic trends upon social welfare policy.

Social Welfare Policy and Services II

The nature and scope of contemporary social problems such as poverty, dependency, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are considered. The impact of present welfare services on the reduction of social problems is examined.

Social Issues and Social Policy

Issues in contemporary social policies are examined by specialists in law, economics, public health, welfare and social work.

Human Behavior and the Social Environment

Personality Theory I

From personality theory fundamental ideas are presented which are considered to be especially pertinent to the various practices of

social workers. The course leans heavily upon psychoanalytic theory. Emphasis is upon general principles connected with the determination of the shape and content of an individual's social functioning.

Personality Theory II

This course extends the work of Personality Theory I. Study in personality theories other than psychoanalytic theory is included here.

Social Theory I

This course introduces the student to the social and cultural context of the field of social welfare and the practice of social work. Starting with a general consideration of social organization and institutional arrangements of industrial society, it covers complex organizations, occupational groups, and role relationships and social stratification. Special attention is paid to the profession of social work as an example throughout.

Social Theory II

A continuation of Social Theory I, this course focuses upon client systems and social change. Starting from a review of concepts of norms and values, it develops critically a number of theories of deviant behavior, with special attention to the role of the group. It proceeds to social units which form social work client systems: the family, the small group, the community and traditional societies. The course concludes with a consideration of theories of social change.

Social and Physical Factors in Health and Disease

Attention is paid to special topics in health, public health, genetics, psychology and psychiatry that are germane to the functioning of individuals.

Political and Governmental Processes

A course based on selected materials from political science designed to extend the student's understanding of functions and prerogatives of local, state and federal governments. A major focus is the contributions of political science as discipline and theory to community welfare planning and social action.

Social Work Practice

Social Casework I

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on differential approaches to treatment as determined by differential psycho-social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields. Current issues and trends in social casework are discussed.

Social Casework IV

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker.

Introduction to Social Casework

This course is designed to introduce community organization students to the basic principles and practice of social casework.

Community Organization I

An introductory seminar on Community Organization practice in social work. Case materials, including student reports on field experiences, are utilized to examine values, concepts and principles of Community Organization. Emphasis is on the relationship of professional practice to the goals, structure and approaches of agencies concerned with community improvement and health and welfare planning. Historical and current trends in agencies are considered.

Community Organization II

A continuation of Community Organization I. The multiple roles and techniques used by the Community Organization practitioner are analyzed. Attention is given to emerging aspects of practice and to the application of various relevant theories in areas such as organization, social change and decision-making.

Community Organization III

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered. Community development is considered in relation to community organization.

Community Organization IV

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings.

Introduction to Community Organization

This course is designed to familiarize casework students with the field and practice of community organization. Emphasis is placed on the contributions of casework practitioners and direct service agencies to community improvement and community welfare planning.

Social Group Work

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include

policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations.

Field Instruction I and II

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester.

Field Instruction III and IV

Taken collaterally with Casework III and IV, Community Organization III and IV. Requirements: three days per week, first and second semesters.

Social Research

Concepts in Research and Statistics I

The goals of this course are to acquaint the student with the terminology and basic concepts of statistics within the context of research design and to equip him with a beginning competence in the statistical analysis of data.

Concepts in Research and Statistics II

This course extends and integrates the knowledge of the research process gained during the first semester. It aims to equip the student to evaluate research from both a scholarly-critical standpoint and from the perspective of practice and application. The student is also familiarized with the organization and administration of research and its place as a staff function in the field of Social Work.

Research Seminar (two semesters)

A Master's paper is required of all candidates for the M.S.S. degree. This may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a non-credit research seminar which meets as needed.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

Social Welfare

History and Philosophy of Social Welfare I

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs. The development of social policy is examined in historical perspective. Special emphasis is given to the effects that different stages of industrial development have on the assumptions and character of welfare programs.

History and Philosophy of Social Welfare II

The course will examine social welfare programs which deal with income transfers, housing, public welfare, health, mental health, and poverty. Special attention will be given to the philosophical assumptions, historical developments and implementation of welfare legislation. Recurrent policy issues in a number of fields will be studied.

Community Mental Health

Attention is directed to an historical study of concern with mental health and mental hygiene and to current directions in community mental health services and programs. Study is made of varieties of mental health services, roles and practices in the past and present; the place of these in society; and the philosophical and idealogical principles embodied in them.

Social Work Practice

Advanced Casework Theory

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on the relationship between knowledge and current assumptions in practice; gaps in knowledge; and the present stage of theory building in social casework.

Theory in Community Organization

This seminar undertakes to provide a critical analysis of the issues and trends in the conceptualization of community organization and the current status of community organization theory. Applications to three arenas of practice are made: community development and neighbor-

hood organization; interagency program planning, coordination and financing; and more comprehensive social planning in concert with physical and economic planning.

Social Administration

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions in the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

Supervision in Social Work

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

This course is designed primarily but not exclusively for field instructors of students or supervisors of staff with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

Social and Behavioral Sciences

Personality Theories and Social Work Practice

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Change

An examination of major sociological theories of social change with special attention to social system analysis. Theories of planned change are examined through case studies.

Concepts of Mental Health

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each are traced.

Formal Organizations

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

Social Research

Social Statistics

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Research

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. Intensive coverage of survey research design, case study and clinical method, and design of social experiments.

Current Research in Social Work

Review and critical evaluation of representative classic and contemporary research studies in social work and related fields with respect to the function of social work research, problem formulation and research methodology, and trends of social work research as related to practice and theory.

Demographic Analysis

Demographic characteristics of the United States and their analysis are studied with principal attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Among the faculty of the Department a variety of research interests and competencies is represented. Some of this faculty research has provided opportunities for research experience for doctoral students and will continue to do so. The areas of research in which members of the faculty have been engaged includes: adoptions; community welfare planning; family life and economic dependency; mental health in public welfare; and evaluation of a family service agency.

SEMINARS AND COURSES IN RELATED DEPARTMENTS IN THE GRADUATE SCHOOL

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Examples of such courses are:

Economics

- Comparative Economics Systems
- Economics of Underdevelopment
- Theories and Problems of Economic Change

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Adolescent Development
- Developmental Psychology
- Research and Measurement in Education and Child Development
- The Social Psychology of the School

Political Science

- American Constitutional Law
- Topics in Urban Affairs
- World Community and Law
- Law, Policy and Personality (advanced undergraduate course)

Psychology

- Comparative Psychology
- Learning
- Sensory Processes and Perception

Sociology

- Sociological Theory
- Social Stratification
- Industrial Sociology
- Race Relations

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

Field Instruction is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student in an agency of good standards. Field Instruction is offered in casework and community organization. The purpose of the field experience is to provide the opportunity for the student to apply the knowledge gained in class and thus to deepen his knowledge and develop skill in its use. It is planned jointly by the agency and the Department in such a way as to give content, sequence and progression in learning. Field instruction runs concurrently with the academic program in order to insure an integration of the content of the two. Except in unusual circumstances the student is placed in a different agency during each year of field instruction.

In a typical program, field instruction for first-year students consists of approximately fourteen hours per week from October through January and twenty-one hours per week from February to May; for second-year students, it consists of twenty-one hours per week for each of the two semesters. Individual arrangements may occasionally be made on the basis of agency and student needs. Field instruction begins approximately ten days after the opening of the academic year.

Students are placed in a number of agencies in the Philadelphia metropolitan area. In most of these agencies, two or more students are placed with agency staff as field instructors. In other agencies a unit of students is under the direction of a field instructor appointed by the Department. Currently, such field instruction units provide field experience in:

Child Welfare
Corrections
Mental Retardation
Psychiatric Social Work
Public Assistance
Rehabilitation
School Social Work

Students in casework are placed in the following agencies:

Association for Jewish Children
Child Care Service of Delaware County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Family Service of Delaware County
Family Service of the Main Line Neighborhood
Family Service of Philadelphia
Hahnemann Hospital, Dept. of Psychiatry
Irving Schwartz Institute for Children and Youth
Jefferson Medical College Hospital, Social Service Department
Lankenau Hospital, Child Guidance Clinic
Montgomery County Mental Health Clinics, Inc.
Norristown State Hospital, Social Service Department
Pennsylvania Corrections Institution
Pennsylvania Hospital, Dept. of Sick and Injured
Philadelphia County Board of Assistance
Philadelphia General Hospital, Dept. of Psychiatry
Sleighton Farm School for Girls
Southern Home for Children
St. Christopher's Hospital, Child Psychiatry Clinic
St. Christopher's Hospital, Handicapped Children's Clinic
Temple University Hospital, Department of Social Work

Community organization field instruction settings include the following:

Bucks County Planning Commission

Community Service Council of Delaware

Health and Welfare Council, Inc., Delaware County District

Health and Welfare Council, Inc., Philadelphia

Human Relations Commission, City of Philadelphia

The Lighthouse

Mental Health Association of Southeastern Pennsylvania

Neighborhood Renewal Program, Department of Licenses and Inspections, City of Philadelphia

Office of the Development Coordinator of the City of Philadelphia

Office of Planning, Evaluation and Research, Department of Public Welfare, Commonwealth of Pennsylvania

Pennsylvania Department of Public Welfare, Southeastern Regional Office

Pennsylvania Hospital, Community Mental Health Center

Redevelopment Authority of Philadelphia

School District of Philadelphia, Office of the Deputy Superintendent for Planning

Urban League of Philadelphia

Fees

The tuition fee for graduate students is $1500 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is $250 a semester for doctoral courses and $190 for Master's courses.

Fees for auditors are the same as for student's registered in courses for credit.

All students taking courses which require field instruction are charged a fee of $10 a semester for each such course taken during the academic year. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Ph.D. candidates who have completed a minimum of 6 academic units, of which at least one must be a unit of supervised work on the dissertation, and who are continuing independent work on their dissertations either in the vicinity of the Graduate School or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of $25 each semester.

The graduation fee for Doctors of Philosophy and Masters of Social Service is $20.00.

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made after classes have begun on account of absence, withdrawal, dismissal, or for any other reason except involuntary service in the Armed Forces of the United States.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of $1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Application Fee	$ 10
Tuition Fee	1,500
Residence Fee at Graduate Residence Center (including health service)	1,000
Dispensary Fee	25
Fee for Field Instruction Manual, Research Manual and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Charge for Microfilming Ph.D. Dissertation	30
Room on campus Christmas and spring vacations ($1.50 per day — maximum 30 days)	45
Expenses, Christmas and spring vacations, commuting to field instruction, books	variable

EXCLUSION

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The Graduate Residence Center

Residence for forty-five graduate students, men and women, is provided in the Graduate Residence Center which lies at the north end of the campus. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Residence Center will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School before September 1.

The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second. Allowance cannot be made for dietary restrictions.

Residence in the Center is for the academic year only — from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of $1.50 a day (meals not included). Baggage will be accepted at the College after September 5. It should be sent prepaid, addressed to the Graduate Residence Center, and marked with the owner's name.

Fellowships, Scholarships and Traineeships

A variety of financial resources is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given in making certain awards. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to May 1st preceding the academic year for which they are desired.

BRYN MAWR FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value $3000, and one or two scholarships, value $2300. The fellowship is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. Scholarships are open to both men and women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

Application from citizens of the United States and Canada should be made to the Director of the Department and must be filed complete not later than February 15. The documents are the same as for admission. Awards are announced in late March and recipients should signify their acceptance or refusal by April 15. Applications from foreign students must be received not later than January 25. Test of English as a Foreign Language score must be included. Therefore this test, or an appropriate substitute, must be taken in October. Awards will be announced in March. There are at present no awards other than Graduate Assistantships available for foreign men students.

Women holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Residence Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student.

The College has several scholarships of $2300 which are open to men or women for study in any department.

Tuition scholarships, $1500, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

TUITION GRANTS FOR PART-TIME STUDENTS

A grant from the Samuel S. Fels Fund for three years, beginning in 1967, has doubled the funds available to assist men and women students who are unable to undertake full-time graduate work. Awards will be made, primarily for tuition, on the basis of high academic standing. Applications are due April 1 for awards to be made in the late spring and September 1 for those to be made in the early fall. Forms are available at the Graduate Office.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund for grants-in-aid. These grants, not to exceed $400, are given on the basis of need to holders of Bryn Mawr College scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 1 for spring awards and by September 1 for awards made in the fall.

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau of the United States Department of Health, Education and Welfare make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of

study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

Doctoral Program

The National Institute of Mental Health of the Public Health Service provides funds to the Department for advanced traineeships for students planning to specialize in some aspect of mental health. For applicants with a minimum of three years of experience, these traineeships provide tuition, a basic stipend of $3600 and dependency allowance within specified limits.

The Children's Bureau provides advanced traineeships to students for leadership in the field of child welfare, for research, administration, social policy and teaching. These traineeships provide tuition, a basic stipend of $3200 plus a dependency allowance.

The Vocational Rehabilitation Administration, as well as the NIMH, provides pre-doctoral research fellowships, application for which must be made by the student directly to the agency. These fellowships provide varying amounts, depending upon the year of study and the number of dependents.

TEACHING ASSISTANTSHIP

Bryn Mawr College provides Teaching Assistantships with a stipend of $2100–2300 including tuition without fee. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of $2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistant-

ship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

Master's Degree Program

The National Institute of Mental Health provides funds to the Department for traineeships for students with career goals in mental health. These traineeships are $1800 plus tuition for first year students and $2000 plus tuition for second year students. These traineeships are available for psychiatric social work, school social work and for a special program in family and child welfare.

The Vocational Rehabilitation Administration makes available to the Department funds for a varying number of traineeships for students interested in careers in rehabilitation. These traineeships provide $1800 plus tuition for first year students and $2000 and tuition for second year students.

Traineeships are also awarded by the Department from funds made available by the Children's Bureau. Preference is given to first or second-year students entering the field of social work with an interest in child welfare. These traineeships provide tuition and a stipend of $2000. Traineeships are also available for work with mentally retarded children and their families. These provide tuition and a stipend of $2500.

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to $2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. Some of these awards are made by the Department.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application

is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania. Other states have similar educational programs.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value $500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value $50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the students who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value $300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding $150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Director of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed $200, for tuition purposes may be made to students who are recommended by the Director of the Department.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

National Defense Student Loan Program — NDEA Title II. Loans up to $2500 a year are available to qualified graduate students under this Title. They are open to half-time as well as full-time students. Partial loan cancellation is offered to prospective teachers. For information write to the Dean of the Graduate School. These applications should be submitted by April 1 for spring awards and by September 1 for awards to be made in the fall.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Director of the Department, make their own arrangements to do a limited amount of paid work.

The Library

The M. Carey Thomas Library and nine departmental libraries of Bryn Mawr College contain over 330,000 books and regularly receive more than 1200 periodicals as well as many scholarly series. The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and the unusual Dillingham Collection of books on early Latin-American exploration in addition to other rare items. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in seminar rooms; individual carrels are available for some graduate students.

The main entry cards of the Haverford College Library are in the Bryn Mawr catalogue, thus bringing approximately 600,000 entries into one file. The Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

The Department of Social Work and Social Research has its own Library and Reading Rooms including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

A Computing Center with an IBM 1620 computer on the Haverford campus and auxiliary record equipment at Bryn Mawr is under joint sponsorship of Haverford and Bryn Mawr Colleges and is open to students and faculty of both colleges.

Health

Certain Health Requirements must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within three years of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Students applying for residence in the Graduate Residence Center must also submit reports of ophthalmological examinations signed by an appropriate physician; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in the Graduate Center and students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consult-

ing physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by graduate students living in the Graduate Residence Center entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven day period, the fee is $15.00 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet the expense.

Graduate students who do not live in the Graduate Residence Center may pay a $25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. Graduate students who do not live in the Graduate Residence Center are not given bed care in the Infirmary.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is $27.80 for a full year starting September 15. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides wider coverage of medical, surgical and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about $45.00 for a twelve-month period, starting in mid-September.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Student and Alumni Organizations

STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the interests of the Department and its alumni. Activities of the Association include a spring breakfast for students to be awarded the M.S.S. or the Ph.D.

Officers for 1967-68 are:

Goetz Mayer, M.S.S., *President*

Susan Freeman, M.S.S., *First Vice-President*

Beatrice Schneider, M.S.S., *Second Vice-President*

Faith Angell, M.S.S., *Recording Secretary*

Joan Sall Goldfield, M.S.S., *Treasurer*

College Calendar 1968/1969

SECOND SEMESTER 1967/1968

January	29	*Work of the Second Semester begins at 9 A.M.*
January	31	*Registration period for graduate students ends.*
March	2	*Spanish examinations for Ph.D. candidates.*
March	9	*French examinations for Ph.D. candidates.*
March	16	*German examinations for Ph.D. candidates.*
March	21	*Spring vacation begins after last seminar.*
April	1	*Spring vacation ends at 9 A.M.*
April	10	*Ph.D. dissertations must be submitted to the Graduate Office.*
May	10	*Last day of seminars.*
May	13	*Examination period begins.*
May	24	*Examination period ends.*
May	27	*Conferring of degrees and close of 83rd Academic Year.*
		Graduate Residence Center closes.

FIRST SEMESTER 1968/1969

1968

September	1	*Final date for filing completed applications for admission to the Graduate School.*
September	11	*Graduate Residence Center opens.*
		Registration period for graduate students begins.
September	16	*Work of the 84th Academic Year begins at 9 A.M.*
September	18	*Registration period for graduate students ends.*
November	27	*Thanksgiving Holiday begins after last seminar.*
December	2	*Thanksgiving Holiday ends at 9 A.M.*
December	20	*Christmas Vacation begins after last seminar.*

1969

January	6	*Christmas Vacation ends at 9 A.M.*
January	9	*Examination period begins.*
January	10	*Final date for filing completed applications for admission to the Graduate School.*
January	22	*Examination period ends.*
		Registration period for graduate students begins.

SECOND SEMESTER

January	27	*Work of the Second Semester begins at 9 A.M.*
January	29	*Registration period for graduate students ends.*
March	21	*Spring Vacation begins after last seminar.*
March	31	*Spring Vacation ends at 9 A.M.*

May	9	*Last day of seminars.*
May	13	*Examination period begins.*
May	22	*Examination period ends.*
May	26	*Conferring of degrees and close of 84th Academic Year.*
		Graduate Residence Center closes.

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

The College does not cancel regularly scheduled classes because of weather conditions.

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

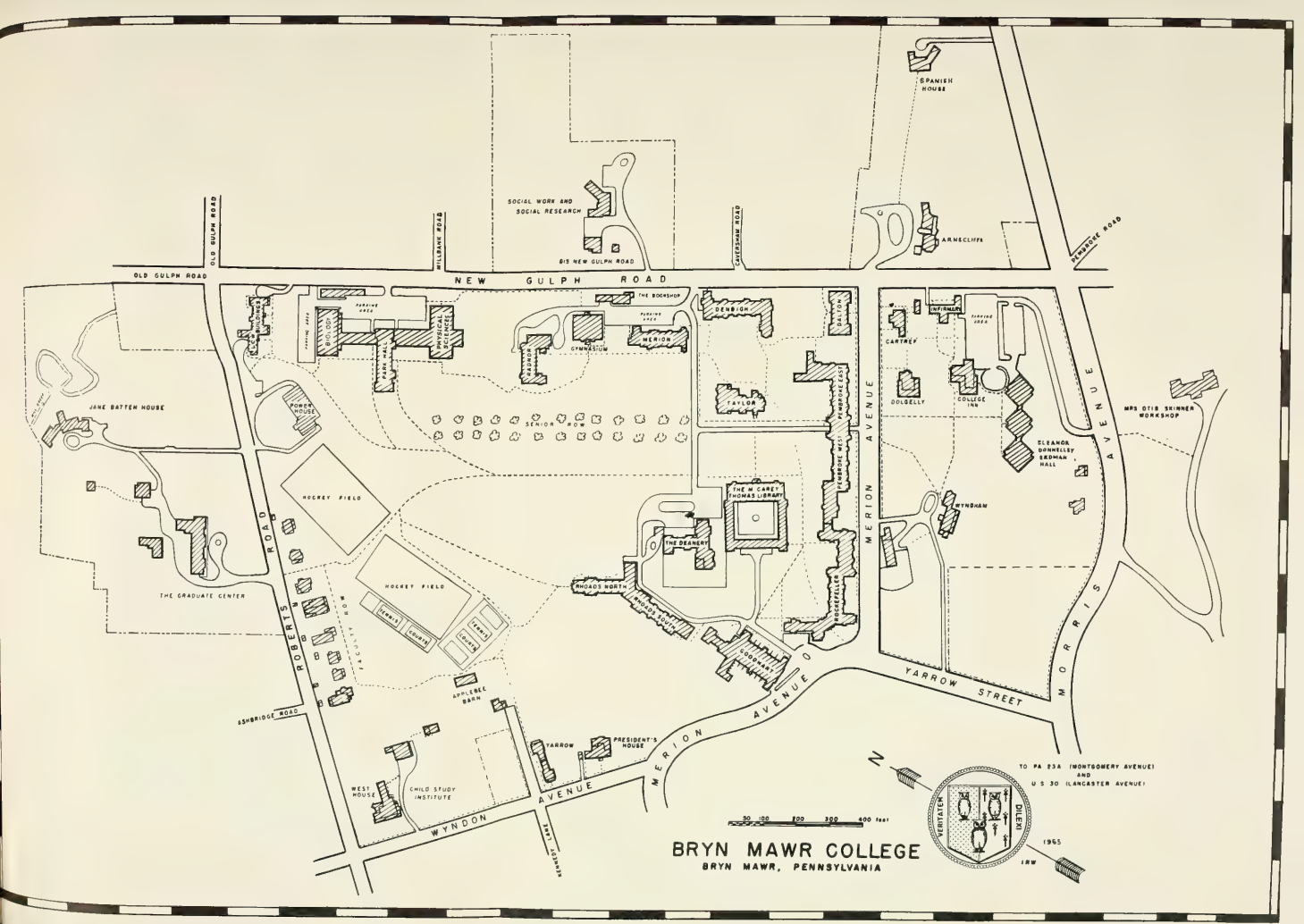
By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43 — Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.


OLD GULPH ROAD
NEW GULPH ROAD
SOCIAL WORK AND SOCIAL RESEARCH
815 NEW GULPH ROAD
SPANISH HOUSE
ARNECLIFFE
ANDROSE ROAD
HILLSIDE ROAD
CAVERSHAM ROAD
THE BOOKSHOP
DENBIGH
DALTON
MERION
GYMNASIUM
BROOKS
SENIOR
PARK HALL
PRINCIPAL
COUNCIL
BROOKS
K.C.A. WINDOWS
POWER HOUSE
JANE BATTEN HOUSE
HOCKEY FIELD
HOCKEY FIELD
TENNIS COURTS
THE GRADUATE CENTER
ROBERTS ROAD
ASHBRIDGE ROAD
APPLEBEE BARN
WEST HOUSE
CHILD STUDY INSTITUTE
WYNDON
TAYLOR
THE M. CAREY THOMAS LIBRARY
THE DEANERY
THOMAS NORTH
THOMAS SOUTH
ROCKEFELLER
PARRISH WEST
PARRISH EAST
GOODHART
MERION AVENUE
YARROW
PRESIDENT'S HOUSE
YARROW STREET
CARTREF
INFIRMARY
DOLGELLY
COLLEGE INN
WYNDHAM
ELEANOR DONNELLEY ERDMAN HALL
MRS OTIS SKINNER WORKSHOP
MORRIS AVENUE
TO PA 23A (MONTGOMERY AVENUE) AND U S 30 (LANCASTER AVENUE)
N
VERITATEM DILEXI
1965
IRW
30 100 200 300 400 feet
BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA



BRYN MAWR, PENNSYLVANIA

BRYN MAWR

College Calendar

Graduate School 1969-70

Bryn Mawr College Calendar
The Graduate School

Issue for the Session of 1969-70
July 1969 *Volume LXII Number 2*

BRYN MAWR COLLEGE CALENDAR published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pennsylvania 19010
Second Class Postage Paid at Bryn Mawr, Pa.

Graduate Work at Bryn Mawr

Graduate education at Bryn Mawr is built upon a close working relationship between students and mature scholars. Each student begins training on the level appropriate for his individual experience, and pursues a flexible program designed for his special requirements. Small seminars provide an opportunity to share research projects and to work under the direct supervision of the faculty.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted; but only after 1965 were adequate funds obtained to offer support for men comparable to that offered for women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. Today the student enrollment is about five hundred.

Graduate work leading to the degrees of Master of Arts and Doctor of Philosophy is available in:

Anthropology
Biology
Chemistry
Classical and Near Eastern Archaeology
Economics
Education and Child Development
English
French
Geology
German
Greek
History
History and Philosophy of Science
History of Art
Latin
Mathematics
Mediaeval Studies
Music
Philosophy
Physics
Political Science
Psychology
Russian
Sociology
Spanish

Work leading to the degrees of Master of Social Service and Doctor of Philosophy is available in the Graduate Department of *Social Work and Social Research.*

College Calendar 1969-70
The Graduate School

First Semester

1969

Sept. 1	*Final date for filing completed applications for admission to the Graduate School, and for filing applications for loans.*
Sept. 10	*Graduate Residence Center opens.* *Registration period for graduate students begins.*
Sept. 15	*Work of the 85th Academic Year begins at 9 A.M.*
Sept. 17	*Registration period for graduate students ends.*
Oct. 18	*Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*
Oct. 25	*French examinations for M.A. and Ph.D. candidates.*
Nov. 1	*German examinations for M.A. and Ph.D. candidates.*
Nov. 26	*Thanksgiving Holiday begins after last seminar.*
Dec. 1	*Thanksgiving Holiday ends at 9 A.M.*
Dec. 19	*Christmas vacation begins after last seminar.*
Dec. 31	*Final date for filing completed applications for Semester II to the Graduate School.*

1970

Jan. 5	*Christmas vacation ends at 9 A.M.*
Jan. 21	*Registration period for graduate students begins.*
Jan. 25	*Final date for filing completed applications for scholarships (foreign students).*

Second Semester

Jan. 26 *Work of Semester II begins at 9 A.M.*

Jan. 28 *Registration period for graduate students ends.*

Feb. 15 *Final date for filing completed applications for fellowships and scholarships (citizens of the United States and Canada), and tuition grants (part-time students).*

Feb. 28 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*

Mar. 7 *French examinations for M.A. and Ph.D. candidates.*

Mar. 14 *German examinations for M.A. and Ph.D. candidates.*

Mar. 20 *Spring vacation begins after last seminar.*

Mar. 30 *Spring vacation ends at 9 A.M.*

Apr. 1 *Applications due for loans.*

Apr. 6 *Ph.D. dissertations in all fields except natural science and mathematics must be submitted to the Graduate Office.*

Apr. 25 *Ph.D. dissertations in natural science and mathematics must be submitted to the Graduate Office.*

May 8 *Last day of seminars.*

May 25 *Conferring of degrees and close of 85th Academic Year. Graduate Residence Center closes.*

Admission to the Graduate School

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 15.

Procedure

The applicant should write to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms and indicate the field of special interest. The application must be supported by official transcripts of the student's full academic record and by letters from the dean and two or more professors with whom he has done his major work. No application can be considered until all the necessary documents are on file in the Graduate Office. Students are accepted for either full-time or part-time work.

Graduate Record Examinations

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Test in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examination should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to the Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Dates

1. *Citizens of the United States and Canada:*

 Applications for admission must be complete by September 1. Graduate Record Examination tests: October 25, December 13, 1969; January 17, February 28, April 25, and July 11, 1970.

2. *Foreign Applicants:*

 The closing date for admission is September 1, but applications from students who desire financial aid must be complete by January 25. These applications must include the score results of the TOEFL or other language tests. Therefore, applicants must register for these tests in September and arrange to take them not later

than October of the year preceding the year in which they wish to enter.

For information concerning the TOEFL test, write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 27, 1969; January 12, March 23, and June 8, 1970.

Students in departments requiring the Graduate Record Examination should also arrange to take these tests in October.

3. *Applicants for financial aid:*

Students wishing to apply for fellowships, scholarships, assistantships, tuition grants or other forms of financial aid must present complete applications by the following dates:

Full-time students:

United States and Canadian citizens, February 15.
Foreign applicants, January 25.

Part-time students, February 15.

Applicants for loans, April 1 and September 1.

Admission to Graduate Courses

Admission to graduate courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to complete appropriate undergraduate courses before being enrolled in a full graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period listed in the College Academic Calendar. Changes in registration require the approval of the Dean.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Dean of the Graduate School.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and made formal application which has been approved by the Graduate Committee.

Resources for Graduate Work at Bryn Mawr

The M. Carey Thomas Library and nine departmental libraries of Bryn Mawr College contain over 330,000 books and regularly receive more than 1200 periodicals as well as many scholarly series. The Rare Book Room houses the Marjorie Walter Goodhart Mediaeval Library of incunabula and the unusual Dillingham Collection of books on early Latin-American exploration in addition to other rare items. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in seminar rooms; individual carrels are available for some graduate students. A new library building is under construction and should be completed in the academic year, 1969-70.

The main entry cards of the Haverford College Library are in the Bryn Mawr catalogue, thus bringing approximately 600,000 entries into one file. The Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

Bryn Mawr has interesting archaeological and ethnological materials which are used for study and research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and other pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman has donated an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian, and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the ceramic and textile traditions known for Peru.

The Geology Department has valuable materials for research including the mineral collection of George Vaux, Jr. and 25,000 maps on deposit from the United States Army Map Service.

Students also use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of Fine Arts, the Barnes Foundation, and the University Museum of the University of Pennsylvania. They take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for microphotography and for glassblowing; there is a machine shop with expert machinists in charge and a workshop available to graduate students. Laboratories and classrooms for Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences, through research grants from industry and other private sources, and from government agencies.

Bryn Mawr, Haverford and Swarthmore Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 16,000,000 bytes of random access disk storage. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, IBM 2260 keyboard display terminals, and two small satellite computers, one with card input-output.

Program of Study

The program of study consists of selected seminars, courses or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a seminar, an undergraduate course for graduate credit, independent study in preparation for the Preliminary Examination, or a supervised unit of work.

A minimum of three academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy must complete three full years of graduate work which shall, with certain exceptions, include a minimum of six academic units at Bryn Mawr. Of these units at least one must be a unit of supervised work on the dissertation.

The number of units required for the Doctor of Philosophy may be reduced to no less than four for those who have held academic appointments at Bryn Mawr College for two or more years. Students holding the A.B. degree from Bryn Mawr College shall offer a minimum of three units. The Graduate Committee may, on recommendation of the departments, reduce the requirements for other students.

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School, see the departmental offerings beginning on page 15.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or review recent publications in their field of study.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. The procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a $5.00 library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, Bryn Mawr students must make appropriate arrangements the previous spring.

Students enrolled in the program in the History and Philosophy of Science attend seminars at the American Philosophical Society and at the University of Pennsylvania.

Summer Work

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Graduate Office early in June.

Summer Institutes in France and Spain

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture at the *Institut d'Etudes françaises d'Avignon.* Certain courses carry graduate credit. For information write to Dr. Michel Guggenheim, Department of French, Bryn Mawr College.

For a similar summer program in aspects of Hispanic culture at the *Centro de Estudios Hispánicos* in Madrid write to Dr. Phyllis Turnbull, Department of Spanish, Bryn Mawr College.

Degree Requirements

Bryn Mawr College awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. Graduates of other colleges must complete at least two years (six academic units) at the Graduate School of Bryn Mawr College. Of these units, at least one must be a unit of supervised work on the dissertation. The residence requirement may be reduced by the Graduate Committee for candidates who have held academic appointments for two years at Bryn Mawr College and occasionally for others. Students who hold the A.B. degree from Bryn Mawr College must complete one full year of graduate work (three academic units) at Bryn Mawr.

3. The recommendation of the student as a candidate by the director of the dissertation and the major Department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School provided that the student has completed two units of graduate work at Bryn Mawr.

4. Knowledge of the foreign languages, computer languages (such as FORTRAN, ALGOL, etc.), and special techniques (such as Statistics) required by the individual departments and tested by written examination. Students whose native language is not English must present evidence of proficiency in English. These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the fields established for the candidate. This examination, consisting of several written examinations, and at the option of the Department, an oral examination, is intended to test the candidate's general knowledge of the major and allied fields rather than familiarity with particular courses.

6. The preparation of a dissertation worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject and contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree in detail is available on request.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Examinations in languages and special techniques are held twice a year, in October and March. Students whose native language is not English, except for those majoring in the language and literature of their native tongue, must present evidence of proficiency in English and are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the Department and accepted by the Graduate Committee. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School not later than December 1 of the academic year in which the candidate wishes to take the degree. The program of study must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major Department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Only one such course may be offered for the M.A. degree. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the Department and the Dean of the Graduate School. Candidates may offer three units of work in one major Department, or two in a major Department and one in an allied field. Candidates whose major

Department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the Department. Candidates not currently on campus must submit the paper by May 1 of the academic year of the degree.

5. Each candidate, after all other requirements have been completed, must pass a final examination.

6. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period (60 months).

The Degree of Master of Social Service

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical, Psychiatric and School Social Work. In Community Organization, preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal and Intergroup Relations.

For a copy of the *Bulletin* describing the M.S.S. and Ph.D. programs, write to the Director, Department of Social Work and Social Research, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

Graduate Program 1969-70

Graduate Seminars and Courses

Graduate seminars and courses vary from year to year. Undergraduate courses which may be offered for graduate credit are listed by number. The letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. Brackets designate courses or seminars not given in the current year.

Special graduate requirements are listed under each Department. For the general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Anthropology

Professor: Frederica de Laguna PH D *Chairman*[1]
Associate Professor: Jane C. Goodale PH D
Visiting Lecturer: A. Irving Hallowell PH D
Lecturers: Philip A. Kilbride M A
Charles C. Kolb A B

Prerequisites. A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

Allied Subjects. Allied subjects include Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology and Sociology.

Language Requirements. Candidates for the M.A. or Ph.D. must offer two modern languages.

[1] On leave, 1969-70.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be in an allied subject. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. All Ph.D. candidates will be expected to become familiar with the principles of at least four of the following: (1) Prehistory or Archaeology of some major area, (2) Physical Anthropology and Human Paleontology, (3) Ethnology, (4) Linguistics, (5) History of Anthropology and Anthropological Theory. These requirements may be satisfied by courses approved by the Department, or competence tested by examination.

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. One of these examinations may be in an allied field.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Depending upon the needs of the students, seminars selected from among the following will be offered either as full year courses (1 unit of credit), or as semester courses (½ unit of credit). Other topics may be offered as desirable.

Ethnographic Methods
The American Indian
Oceania and Australia
Social Organization
Primitive Religion
Culture Change
American Archaeology
Human Evolution and Prehistory
History of Anthropology
Peasant Cultures

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 10).

SELECTED UNDERGRADUATE COURSES

203a. *Primitive Society:* Mr Kilbride.
203b. *Primitive Culture:* Miss Goodale.
208. *Prehistory and Human Evolution:* Mr Kolb.
301a. *Cultural Theory:* Miss Goodale.
302b. *Cultures of Sub Saharan Africa:* Mr Kilbride.

Interdepartmental 310. *Linguistic Techniques:* Miss Dorian.
Interdepartmental 312b. *Field Methods in Linguistics:* Miss Dorian.

Biology

Professors: L. Joe Berry PHD *Chairman*
Robert L. Conner PH D
Jane M. Oppenheimer PH D[1]

Assistant Professors: Audrey Barnett PH D[2]
Anthony R. Kaney PH D

Prerequisites. An undergraduate major in Biology, Zoology or Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cell Biology, Developmental Biology, Plant and Animal Physiology, Genetics or Microbiology, but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. degree should offer French or German. Candidates for the Ph.D. degree should offer French or German (or some other language by special permission of the Department and the Graduate Committee) and Statistics.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study, and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

[1] On leave, semester I, 1969-70.
[2] On leave, 1969-70.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr Conner: *Biochemistry (offered in 1970-71).*
Selected topics in intermediary metabolism.
Biochemical techniques.
Cellular physiology.

Physiology of Plants (offered in 1970-71).
Photomorphogenesis.
Chemical control of plant growth.
Selected topics of plant metabolism.

Mr Kaney: *Selected Topics in Modern Genetics (offered in 1969-70).*

Mr Berry: *Microbiology and Physiology (offered in 1970-71).*
Control of biological reactions.
Mechanisms of defense against infectious diseases.

Miss Oppenheimer: *Developmental Biology (offered semester II, 1969-70).*
Factors controlling growth and differentiation.
Nucleic acids and proteins in development.
Morphogenesis in invertebrates and vertebrates.
Embryonic induction.

ADVANCED UNDERGRADUATE COURSES

Any advanced undergraduate course may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor.

[351. *Advanced Genetics.*]
352. *Advanced Plant Physiology.*
353. *Biochemistry:* Mr Conner.
354. *Bacteriology and Immunology:* Mr Berry.
[355. *Development Biology:* Miss Oppenheimer.]

Chemistry

Professors: Ernst Berliner PH D *Chairman*
Frank B. Mallory PH D
George L. Zimmerman PH D
Associate Professors: Jay Martin Anderson PH D
Joseph Varimbi PH D
Lecturer: Frances Bondhus Berliner PH D

Fields of Study and Research. The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a sound background in modern chemistry and to prepare men and women for a professional career in productive scholarship, research, and teaching in chemistry. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered around a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, isotope effects, the photochemical conversion of stilbenes to phenanthrenes, the chemistry of benzofurazan oxide, the use of nuclear magnetic resonance spectroscopy for structural organic problems, reactions in liquid ammonia and other non-aqueous solvents, photochemical cis-trans isomerizations, ultraviolet and vacuum ultraviolet absorption studies of hydrated transition metal ions, nuclear magnetic resonance as applied to nuclear relaxation and chemical exchange studies.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, biochemistry, chemical physics.

Prerequisites. An undergraduate preparation in Chemistry including courses in Inorganic, Analytical, Organic and Physical Chemistry, College Physics and Mathematics (Calculus).

Major and Allied Subjects. Students may specialize in Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of Chemistry different from that

of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department. The typical work for the allied subject would be a year's course or seminar on an approved level.

Language Requirements. Candidates for the M.A. must offer German, French or Russian. Candidates for the Ph.D. may offer German and either French, Russian or demonstrated skill in digital computation, numerical analysis and the theory of error. This skill may be demonstrated *either* by a satisfactory grade in Interdepartmental Course 220c or its equivalent, *or* by an examination consisting of two parts, a practical part requiring the successful execution of a FORTRAN (or other equivalent language) program, and a written examination on numerical analysis and error theory.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Ph.D. students will normally be expected to devote a large proportion of their time to experimental or theoretical research, carried out under the direction of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, and a third, oral examination, which constitutes a defense of a number of research proposals previously submitted by the student. Four such proposals are required, two of which may be related to the student's thesis. The two written examinations will be from the candidate's major field. One will be a broad examination in the general aspects of the major field. The second will be in the special field of the candidate's research, with questions to include those testing familiarity with, and ability to interpret, material from the recent chemical literature of the candidate's special field. The proposition examination must be taken within one year after the first written examination. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty. The seminars listed below are illustrative of those that have been offered in recent years.

Inorganic Chemistry: Mr Varimbi.
Recent Methods in Organic Synthesis: Mr Mallory.
Structure and Physical Properties of Organic Compounds: Mr Berliner.
Spectral Applications in Current Organic Chemistry: Mr Mallory.
Physical Organic Chemistry: Mr Berliner.
Natural Products: Mrs Berliner.
Physical Organic Aspects of Aromatic Chemistry: Mr Berliner.
Organic Photochemistry: Mr Mallory.
Chemistry of Heterocyclic Compounds: Mrs Berliner.
Introduction to Chemical Physics: Mr Zimmerman.
Introduction to Molecular Spectroscopy: Mr Anderson.
Intermediate Quantum Mechanics: Mr Anderson.
Photochemistry: Mr Zimmerman.
Theory of Electrolytic Solutions: Mr Varimbi.
Applications of Group Theory in Quantum Mechanics: Mr Zimmerman.
Nuclear Magnetic Resonance: Mr Anderson.
Statistical Thermodynamics: Mr Varimbi.
Biochemistry: See under Biology.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in chemistry, usually by outside speakers.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

301b. *Advanced Inorganic Chemistry:* Mr Varimbi.
302. *Advanced Organic Chemistry:* Mr Mallory, Mr Berliner.
303. *Advanced Physical Chemistry:* Mr Zimmerman.

Classical and Near Eastern Archaeology

Professor: Machteld Mellink PHD *Chairman*
Associate Professors: Kyle M. Phillips, Jr. PHD[1]
Brunilde S. Ridgway PHD
Lecturer: John E. Coleman PHD
Part-time Instructor: Adele F. Berlin AB

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin, Ancient History, or History of Art. It is expected that students of Classical and Near Eastern Archaeology will have a basic knowledge of Greek and Latin. Students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses during their first year in Graduate School.

Allied Subjects. Greek, Linear B, Latin, Akkadian, Hebrew, Hittite, Egyptian; History of Art, Ancient History, Anthropology, a science related to the archaeological program of the candidate.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of Greek or a Near Eastern ancient language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The final examination is written (three hours) and oral (one hour).

Program and Examinations for the Ph.D. The students spend the first two years in residence, participating in seminars and preparing for the Preliminary Examination. The third year is usually spent at the American School of Classical Studies in Athens or at another archaeological research center abroad. Museums in Europe and the Near East are visited during this year, and participation in excavations is arranged when possible (see below).

The Preliminary Examination, normally taken at the end of three years of graduate work, consists of four four-hour papers in selected fields such as Greek and Roman sculpture, architecture, monumental painting, Greek vase-painting, numismatics, Aegean prehistory, prehistory of Western Asia, Mesopotamian art and archaeology, the archaeology of Anatolia or Syria. One of the papers may be written in an allied field. The Final Examination covers the field of the dissertation.

[1] On leave, 1969-70.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Excavations. The Department currently sponsors two excavation projects:

I. An investigation of the Bronze Age habitation of ancient Lycia, in progress since 1963 at the third millennium B.C. site of Karatash near Elmali.* Advanced graduate students participate in this excavation which is organized as a field seminar during the fall term with full graduate credit. The program provides instruction in excavation and field techniques and gives an opportunity to visit other sites, excavations and museums in Turkey, with discussion of the problems of the Bronze Age in the Aegean and Anatolia. The final publication will be prepared on the basis of the joint field reports by the participants.

II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. The work takes place during the summer and offers qualified graduate and undergraduate students training in excavation techniques while participating in the study of a townsite and necropolis of the sixth century B.C.†

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The following seminars are offered in 1969-70:

Miss Mellink:

Field Seminar in Aegean and Anatolian Archaeology (*Excavations in Lycia,* semester I).

Anatolian Archaeology of the post-Hittite period (semester II).

Mrs Ridgway:

Problems of Greek Sculpture I (semester I).

Problems of Greek Sculpture II (semester II).

Mr Coleman:

The Cyclades in the Early Bronze Age (semester I).

Minoan-Mycenaean Relations in the Late Bronze Age (semester II).

* cf. *American Journal of Archaeology* 68 (1964) 269-278; 69 (1965) 241-251; 70 (1966) 245-257; 71 (1967) 243-263.

† cf. *American Journal of Archaeology* 71 (1967) 133-139.

BRYN MAWR COLLEGE

ADVANCED UNDERGRADUATE COURSES

[201b. *Egypt and Mesopotamia:* Miss Mellink.]
203a. *Greek Sculpture:* Mrs Ridgway.
205b. *Aegean Archaeology:* Miss Mellink.
301a. *Greek Vase-Painting:* Mr Coleman.
301b. *Greek Architecture:* Mrs Ridgway
[303. *Anatolian and Syrian Archaeology:* Miss Mellink.]
305. *Akkadian II:* Mrs Berlin.

Comparative Philology and Linguistics

Professor of Spanish: Joaquín González Muela *D en F L*
Associate Professor of English: Robert B. Burlin PHD
Assistant Professor of German: Nancy C. Dorian PHD

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German and Spanish.

ADVANCED UNDERGRADUATE COURSES

[Interdepartmental 308. *Introduction to Linguistics:* Miss Dorian.]

Interdepartmental 310. *Linguistic Techniques:* Miss Dorian.
Introduction to techniques of linguistic analysis; typology, phonetics, phonemics, morphemics, syntax; generative grammar; historical and comparative linguistics; writing systems and literacy.

Interdepartmental 312b. *Field Methods in Linguistics:* Miss Dorian.
Practical experience in transcription and analysis of an unfamiliar language. There will be an informant, and students will be able to develop their own methodology for approaching a language with which they have no previous experience.

Economics

Professor: Joshua C. Hubbard PH D *Chairman*
Associate Professor: Richard B. Du Boff PHD
Visiting Lecturer: Helen M. Hunter PHD

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Applicants with majors in other disciplines will be admitted but may first be required to pass a qualifying examination, consisting of a three-hour paper in theoretical economics at the level maintained for final-year undergraduates in Economics at Bryn Mawr College. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as the Department thinks necessary. Under certain conditions, such work may receive graduate credit.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable as allied work. Mathematics, Statistics, and Accounting are not only acceptable as allies but are necessary to advanced work in Economics. Courses in these subjects, when not offered at Bryn Mawr, may be taken at the University of Pennsylvania under the Reciprocal Plan.

Language Requirements. Candidates for the M.A. and Ph.D. must show reading proficiency in one modern language and competence in Statistics and Econometrics. The statistics-econometrics requirement will be tested by the Department or may be satisfied by passing a graduate course at a satisfactory level.

Admission to the Ph.D. Program. Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission to the Graduate School. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed two full units of graduate work at Bryn Mawr.

Program of Study for the M.A. It is expected that the work for the M.A. degree will require not less than one calendar year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, supervised units) prior to submitting the M.A. research paper. One of these units must be in Economic Theory, one in Econometrics and one in the student's special field of interest (e.g., Economic Development, Money and Banking, Economic History). Course examinations in each of these three fields must be passed before the candidate presents the research

paper. After acceptance of the paper a final examination, consisting of a written paper and a brief oral examination, must be passed.

Program of Study for the Ph.D. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. examinations. The Preliminary Examination will consist of four three-hour written papers and an oral examination; one of the written papers will be in Economic Theory and one in Economic History; the other two papers will be in fields related to the candidate's major interest. The Final Oral, taken after the dissertation has been accepted, will be devoted to the subject matter of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Mr Du Boff:
Comparative Economic Systems and Philosophies.
Economic Development: the United States and Western Europe.

Mr Hubbard:
Macroeconomic Theory.
Fiscal-Monetary Theory and Policy.

Mrs Hunter:
Statistics and Econometrics.

SELECTED UNDERGRADUATE COURSES

201a. *Economic History and Development.*
[205b. *Private Enterprise and Public Policy.*]
207a. *Money and Banking.*
212b. *Comparative Economic Systems.*
[216b. *Western European Economic Development.*]

Education and Child Development

Professor and Director,
Child Study Institute: Rachel D. Cox PHD *Chairman*
President of the College: Katharine Elizabeth McBride PHD
Associate Professor and
Director, Thorne School: Susan E. Maxfield MS
Associate Professor: Ethel W. Maw PHD
Assistant Professors: Emmy A. Pepitone PHD
Faye P. Soffen PHD

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling, for teaching in the schools and for early childhood education. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field for which the College has program approval of the Department of Public Instruction. Sequences are offered leading to the certificate as counselor in the elementary and secondary school and as public school psychologist, these programs having received program approval from the Department of Public Instruction.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: Child Development, Clinical Evaluation, Counseling and Guidance, Early Childhood Education, History and Philosophy of Education, Learning, the School as a Social Institution, Secondary Education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. One allied subject may be chosen from the fields of Psychology, Anthropology, Sociology or Philosophy.

Requirements in Languages and Statistics. For the M.A., students are required to pass an examination in one modern foreign language and demonstrate a working knowledge of descriptive and inferential statistics. For the Ph.D., students are required to pass an examination demonstrating reading knowledge of one modern foreign language and competence in statistics through multiple correlation and factor analysis. An exception to this is the case of students who offer History and Philosophy of Education as one of the major fields. Such students must demonstrate a reading knowledge of two foreign languages, one of which shall be modern, one classical. These students must also satisfy a statistics requirement, the level of the requirement to be set by the nature of the student's total curriculum. The statistics requirement for both degrees may be satisfied by passing an examination or by passing an appropriate course at a satisfactory level.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers. One of the written papers may be in the allied field. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

The Phebe Anna Thorne School and The Child Study Institute. The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early child development. Students preparing for early childhood education spend substantial blocks of time in the Thorne School.

The Department also operates at the College the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried out with parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, neurological and pediatric departments of the Bryn Mawr Hospital, from physicians, social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, individual and group therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following (in most cases, laboratory practice is required):

Miss McBride:

The American School.

Mrs Cox:

Advanced Clinical Evaluation
(including the Projective Techniques)

The Individual.

Problems of Child Development.

Adolescent Development.

Miss Maxfield:
Developmental Psychology.
Early Childhood Education.

Mrs Maw:
Educational Psychology.
Curriculum of the Elementary School.
Research and Measurement in Education and Child Development.

Mrs Pepitone:
History and Philosophy of Education.
The Social Psychology of the School.
Group Dynamics: Theory and Research.

Mrs Soffen:
Principles and Organization of the Guidance Program.
The Counseling Process: Theory and Practice.
The Group Process in Counseling and Guidance.
The Psychology of Occupations.

SELECTED UNDERGRADUATE COURSES

201a. *Educational Psychology:* Mrs Maw.

[206a. *Child Psychology:* Mrs Cox.]

301a. *Principles of Teaching in the Secondary School:* Mrs Maw.

302a. *Principles of Teaching in the Elementary School:* Mrs Maw.

Course numbers 301a and 302a satisfy the student-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements can be made. Supervised teaching: 12 hours per week.

308b. *Psychology of the Abnormal Personality:* Mrs Cox.

English

Professor: K. Laurence Stapleton AB[1]
Associate Professors: Robert B. Burlin PHD *Chairman*
Thomas H. Jackson PHD
Assistant Professors: Roger W. Cummins PHD
Gwenn Davis PHD
C. Earl Ramsey PH D
Visiting Lecturer: Isabel Gamble MacCaffrey PHD

[1] On leave, semester II, 1969-70.

BRYN MAWR COLLEGE

Lecturers: June Q. Koch PHD
Joseph E. Kramer PHD
Adrienne Lockhart PHD

Instructor: Sandra I. Kohler MA

Prerequisites. An undergraduate major in English or its equivalent. Students should have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art, or Philosophy. All applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any classical or modern European language and literature; Philosophy; mediaeval or modern History; and History of Art.

Language Requirements. For the M.A. degree, French or German; for the Ph.D. degree, both. The Ph.D. candidate will be expected to satisfy the language requirements at the beginning of his second year of graduate work. Ph.D. candidates are also required to show evidence of an adequate knowledge of Latin or Greek. These requirements must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examinations for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Program and Examinations for the Ph.D. Work of the Department is carried on largely through small seminars and supervised units of independent study. Six units of graduate work are required, one of which may be in an allied field. Candidates will be expected to spend at least one year in full-time graduate work. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted. The Preliminary Examination is in five parts: four written (four hours each) and an oral (one to two hours). One written examination may be in an allied field. The Final Examination is in the field of the dissertation. In the choice of four fields for the Preliminary Examination, the student is expected to demonstrate a balanced knowledge of different periods.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Since most seminars run through the year, students must begin work in the first semester.

Mr Burlin:
Old English Literature.
[*Chaucer.*]

Mr Kramer:
Shakespeare.

Miss Stapleton:
[*Milton.*]
[*Studies in Poetry.*]

Mr Ramsey:
[*Augustan Poetry.*]
Restoration Drama (semester II).

Mrs Koch:
Romantic Poets:
Wordsworth and Coleridge (semester I).
Shelley and Keats (semester II).

Mr Cummins:
[*Studies in American Literature.*]
Nineteenth Century English and American Novel.

Mr Jackson:
Studies in Twentieth Century Literature.

SELECTED UNDERGRADUATE COURSES

201a,b. *Chaucer and His Contemporaries:* Mrs Lockhart, Mr Burlin.
211b. *Sixteenth Century Poetry:* Miss Davis.
215a. *Spenser:* Mrs Kohler.
257a,b. *Nineteenth Century English Novel:* Mrs Lockhart.
263a. *American Writers of the Nineteenth Century:* Mr Cummins.
266b. *Modern American Fiction:* Mr Cummins.
270a,b. *Major Forces in Twentieth Century Literature:* Mr Jackson.
301a. *Readings in the Middle English Literature:* Mr Burlin.
321a,b. *English Drama to 1642:* Mr Kramer.
335a. *Milton:* Miss Stapleton.
341a. *The Augustan Age:* Mr Ramsey.
371a. *Post-Romantic to Early Modern in English Poetry:* Mr Jackson.
382b. *Pastoral and Landscape Literature:* Mr Ramsey.
389b. *Studies in Twentieth Century Criticism:* Mr Jackson.

French

Professors: Michel Guggenheim PHD *Chairman*
Mario Maurin PHD
Visiting Professor: William J. Roach PHD
Associate Professor: Gérard Defaux, *Agrégé*
Assistant Professors: M. Pauline Jones PHD
Catherine Lafarge PH D

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school is advisable.

Major and Allied Subjects. Students specialize in French Literature from the Renaissance to the present. Successful completion of a course in Old French Philology and Literature is required of Ph.D. candidates. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. For the M.A. degree, one Romance language, or German, or evidence of extensive training in Mediaeval Latin or Advanced Latin. For the Ph.D. degree, one Romance language and German.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examination for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. The Final Examination is oral and covers the field in which the dissertation has been written.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

An introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate

courses at the University of Pennsylvania. Graduate seminars in selected fields of French Literature are given each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Mr Roach: *Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique.*

Mr Defaux: *Rabelais—Montaigne.*

Mr Guggenheim: *Le Moi dans la littérature française de Montaigne à Gide.*

Précieux, mondains et moralistes du XVIIe Siècle.
Rousseau et le Préromantisme.
Balzac—Flaubert.

Miss Jones: *Baudelaire.*

Verlaine et Rimbaud.
Mallarmé et l'Ecole Symboliste.

Miss Lafarge: *Diderot.*

Le Roman au XVIIIe Siècle.
Stendhal.
Le Thème de la prison au XIXe Siècle.

Mr Maurin: *Aspects de l'autobiographie aux XIXe et XXe Siècles.*
Aspects de la critique aux XIXe et XXe Siècles.
Réalisme et Naturalisme.
Proust—Gide—Mauriac.

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest.

SELECTED UNDERGRADUATE COURSES

301. *French Lyric Poetry:* Mr Maurin, Miss Jones.
[302. *French Drama:* Miss Lafarge, Mr Guggenheim.]
303. *The French Novel from 1700 to 1960:* Mr Defaux, Mr Guggenheim.
[304. *French Essayists and Moralists.*]
305a. *Marivaux, Giraudoux:* Miss Lafarge.
305b. *Romancières de Mme de Staël à S. de Beauvoir:* Mr Maurin.

Courses offered at the Avignon Summer Institute

Molière or *Racine.*
'Les Fleurs du Mal' or *Rimbaud.*
Le Surréalisme.
Travaux de traduction et de stylistique.

Geology

Professors: Edward H. Watson PHD *Chairman*
Lincoln Dryden PHD
Assistant Professors: Maria Luisa B. Crawford PHD
William A. Crawford PHD
J. Duncan Keppie PHD

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. degree, one of the following: Russian, German, or French. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French; or one foreign language from this list and proficiency in digital computation, numerical analysis and the theory of error. This proficiency may be demonstrated either by a satisfactory grade in Interdepartmental Course 220c or its equivalent or by an examination to be administered by the Department.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with laboratory study. The number of units of course work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Three or four seminars are offered each year, to be selected from the following:

Mr Watson, Mr Crawford: *Petrology.*

Selected subjects in the structure, physical chemistry and origin of rocks.

Mr Watson, Mr Keppie: *Structural Geology.*

Modern techniques and concepts in structural analysis.

Mr Watson, Mrs Crawford: *Mineralogy.*

The optical, chemical and X-ray study of selected mineral groups.

Mr Dryden: *Stratigraphy.*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr Dryden: *Sedimentation.*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mrs Crawford: *Metamorphism* (semester I).

The physical and chemical processes of metamorphism, accompanied by regional studies. Instruction on the universal stage and a study of petrofabrics may be included.

Mrs Crawford: *Optical Mineralogy—Petrography.*

Semester I: Crystal optics and the properties of the rock-forming minerals. Semester II: A microscopic study of igneous, sedimentary and metamorphic rocks.

Mr Crawford: *Geochemistry.*

Experimental physical chemistry, phase equilibria, and the distribution and behavior of the elements as applied to geologic problems.

Mr Crawford: *Analytical Techniques.*

Laboratory course in wet chemical and instrumental means of silicate analysis. Mechanical separations and experimental petrology.

SELECTED UNDERGRADUATE COURSES

201. *Crystallography and Mineralogy:* Mr Watson.
[202. *Paleontology:* Mr Dryden.]
[203. *Physiography:* Mr Watson, Mr Crawford.]
301a. *Structural Geology:* Mr Keppie.
301b. *Tectonics:* Mr Keppie.
302. *Stratigraphy:* Mr Dryden.
303a. *Introduction to Geochemistry:* Mr Crawford.
304b. *Introduction to Petrology:* Mr Crawford.
305a. *X-ray Crystallography:* Mrs Crawford.

German

Professor: Christoph E. Schweitzer PHD *Chairman*
Associate Professor: Hans Bänziger PHD
Assistant Professor: Nancy C. Dorian PHD
Lecturers: Katrin Taeger Bean PHD
Rena Kreutz, Staatsexamen

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject. Graduate students are encouraged to acquaint themselves with the theory and practice of teaching German.

Language Requirements. Normally French for the M.A.; French and Latin or another language for the Ph.D.

Program and Examination for the M.A. The program consists of three units in German literature or in German literature and an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, Middle High German, structural linguistics, and one of the following: Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Topics from the following fields are selected each year according to the needs of students:

Mr Bänziger:

Modern German Literature.
Nineteenth Century German Literature.
Modern German Drama.

Miss Dorian:

Old High German.
History of the German Language.
Introduction to German Philology.

Mr Schweitzer:

German Baroque Literature
Lessing, Goethe, and Schiller.
Romanticism.

Miss Kreutz:

Middle High German Literature.

SELECTED UNDERGRADUATE COURSES

300a. *German Literature from the Beginnings to the Baroque:* Miss Kreutz.

[301b. *Introduction to Germanic Philology:* Miss Dorian.]

[302b. *German Language and Literature of the Middle Ages.*]

303a. *Modern German Literature:* Mr Bänziger.

304b. *The German "Novelle":* Mr Bänziger.

[305. *The German Drama:* Mr Bänziger.]

[306. *German Poetry.*]

Preparatory course for degree candidates in other Departments:

Reading German. This course, which does not carry academic credit, is designed to assist students in meeting the language requirements for advanced degrees. An extra charge will be made.

Greek

Professors: Mabel L. Lang PHD *Chairman*
Richmond Lattimore PHD LITT D
Instructor: Gregory W. Dickerson M A

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German for both the M.A. and the Ph.D.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry (with emphasis on Homer), Lyric Poetry (with emphasis on Pindar), Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Miss Lang: *Herodotus.*

Style and content will be studied for themselves in both isolation and interaction. Consideration will be given to sources (oral, written and monumental) as well as to the moral and ideological bias of Herodotus. Some attempt will be made to view the historian in context of the 5th century B.C. climate of opinion. In addition to Herodotus' *History* there will be supplementary Greek reading,

secondary sources and critical material, as well as individual research topics, both short and long.

Mr Lattimore: *Pindar* (semester I).

Selected odes will be studied with particular attention paid to structure, language and the use of myth.

Euripides (semester II).

The Athenian plays will be examined as a group to explore the poet's various treatments of single themes and characters. Supplementary studies will be made of other plays, and due regard will be given to questions of text, metre, dramatic construction, and moral and religious issues.

SELECTED UNDERGRADUATE COURSES

101. *Herodotus and Tragedy:* Miss Lang, Mr Lattimore.
102b. *Homer:* Mr Lattimore.
201. *Plato and Thucydides; Hesiod and Tragedy:* Mr Dickerson.
301. *Lyric Poetry; Aeschylus and Aristophanes:* Mr Lattimore, Mr Dickerson.

History

Professors: Arthur P. Dudden PHD *Chairman*
Elizabeth Read Foster PHD *Dean of the Graduate School*
Caroline Robbins PHD
J. H. M. Salmon MLITT
James Robert Tanis TH D *Director of Libraries*
Associate Professors: Charles M. Brand PHD
Mary Maples Dunn PHD[1]
Barbara M. Lane PHD[2]
Alain Silvera PHD
Lecturer: Joseph A. Airo-Farulla MA
Instructor: Margaret W. Masson MA

Professor of History of Religion: Howard C. Kee PH D
Assistant Professor of Latin: Russell T. Scott PHD
Instructor of Greek and Latin: Gregory W. Dickerson MA

[1]On leave, 1969-70.
[2] On leave, semester II, 1969-70.

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German, upon entrance.

Major and Allied Subjects. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages, to be determined by the Department, by the end of their second academic year of graduate work. Students entering with the M.A. must complete these requirements during their first year of residence at Bryn Mawr. The time limit for part-time students is determined by the academic year, not by the number of units completed. Candidates for the Ph.D. in ancient or mediaeval history must also demonstrate ability to read one classical language. Directors of research may also require demonstration of ability in special techniques.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field, together with a thesis and a final examination. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, allied work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in Modern European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination. The Final Examination covers the field of the dissertation.

Fields of Specialization Available. The following fields are available for doctoral programs: Ancient Rome—the Republic or the Empire; the Fifth and Sixth Centuries in Western Europe; the Byzantine Empire in the Twelfth Century; the Renaissance; the Reformation; the Early Stuarts and the Restoration in Seventeenth Century England; the French Third and Fourth Republics; Germany since Bismarck, and Great Britain under the Victorians; England's Col-

onies in America; the Great Awakening of the Eighteenth Century and American Religion of the Nineteenth and Twentieth Centuries; the American Revolution and Early Nationalism in the United States; Nineteenth and Twentieth Century Fields in the History of the United States; the History of Science in the Nineteenth and Twentieth Centuries.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Ancient History

Students should consult pages 38 and 46 where the offerings of the Departments of Greek and Latin are listed.

Medieval and Renaissance History

Mr Brand: *Topics in the Middle Ages.*
The Fifth and Sixth Centuries, (1969-70).
The Carolingians.
The Twelfth Century.

Early Modern European History

Mr Salmon: *French Political Ideas 1573-1653,* (1969-70).
Readings in Eighteenth Century Historiography.
[Mr Tanis: *The Reformed Reformation in Northern Europe.*]

British History

Mrs Foster: [*Parliament in the Early Stuart Period.*]
Social and Economic History of the Early Stuart Period, (1969-70).
Miss Robbins: *Topics in the History of the Period 1649-1875. Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.*

American History

Mr Dudden: *The Progressive Era.*
The New Deal.
The United States in the Second World War, (1969-70).
[Mrs Dunn: *Topics in Colonial and Early National History.*]
Mr Tanis: *The Great Awakening of the Eighteenth Century,* (1969-70).

Modern European History

[Mrs Lane: *Topics in the History of Twentieth Century Europe.*]

[Miss Robbins: *Eighteenth Century Life and Thought.*]

Mr Silvera: *The French Third Republic,* (1969-70).

Methodology and Historiography

Miss Robbins: *The Methods and Writings of Historians,* (1969-70).

Journal Club. Faculty and students of the Department meet four or five times a year to discuss research in progress, or recent books and projects, or to meet visiting scholars.

SELECTED UNDERGRADUATE COURSES

205. *Ancient History:* Mr Dickerson, Mr Scott.
208. *Byzantine Empire:* Mr Brand.
[209. *Early American History, 1607-1789:* Mrs Dunn.]
212. *Renaissance and Reformation:* Mr Salmon.
[301. *Europe in the Twentieth Century:* Mrs Lane.]
302. *Wars of Religion in France:* Mr Salmon.
303. *Recent History of the People of the United States of America:* Mr Dudden.
[304. *The Victorians and Edwardians:* Miss Robbins.]
305. *Italian Renaissance, 1200-1520:* Mr Airo Farulla.
307a. *Spanish Civil War:* Mrs Lane.
308a. *Germany since 1890:* Mrs Lane.
[309a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries:* Miss Robbins.]
[310a. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change:* Mrs Dunn.]
311b. *Colonial America:* Mrs Masson.

History and Philosophy of Science

Director: José María Ferrater Mora *Lic F L* (Philosophy)

Advisory Committee: Jane M. Oppenheimer PHD (Biology)
Ernst Berliner PHD (Chemistry)
Mary Maples Dunn PHD (History)

Assistant Professors: Charles A. Culotta PHD (History of Biology)
Lyndsay Farrall MA (History of Biology)

Visiting Lecturers: Arnold W. Thackray PHD (History of Chemistry)
Russell K. McCormmach PHD (History of Physics)

This program within the Department of History has been developed in collaboration with the American Philosophical Society and the Department of the History and Philosophy of Science at the University of Pennsylvania. Courses taken at any of the participating institutions may be credited toward an advanced degree.

Prerequisites. Undergraduate preparation in science, philosophy, and history.

Major and Allied Subjects. The student's major subject will be History of Science, to be supported by intensive work in the field of history related to his special area of interest. Allied subjects may be philosophy and other areas in science and history.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages to be determined by the Department before taking the Preliminary Examination.

Program and Examination for the M.A. The program consists of at least two units of work in the History of Science and one unit of work in a related field of History or Philosophy. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. The Preliminary Examination tests the student's competence in four general fields, three in the History of Science and one in a related field of History or Philosophy. The Final Examination covers the field of the dissertation which must be in History of Science.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Seminars offered in 1969-70 will be chosen from among the following:

Mr Culotta: *Topics in Nineteenth Century Physiology.*

Mr McCormmach: *Topics in the History of Physics.*

Mr Farrall: *Social Darwinism 1860-1960.*

Mr Thackray: *Approaches to the Social History of Science.*

Mr Ferrater Mora: *Philosophical Problems in Modern Science.*

A seminar at the American Philosophical Society will be available for graduate credit. In 1969-70 the topic will be:

Mr Lester King and others: *Eighteenth Century Medical Systematists.*

UNDERGRADUATE COURSE

314 a. and b. *History of Science:* Mr Culotta.

History of Art

Professor: Charles Mitchell MA B LITT *Chairman*
Associate Professor: James E. Snyder M F A PH D
Assistant Professors: Charles G. Dempsey M F A PH D[1]
Arthur S. Marks PH D
Lecturer: John David Summers PH D

Field of Study. The history of Western art from Early Christian to modern times.

Prerequisites. The normal prerequisite for admission is undergraduate training in art-history, but students with special abilities or sound training in cognate disciplines are exceptionally admitted.

Language Requirements. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian. Both M.A. and Ph.D. candidates are required to prove by examination their knowledge of two modern foreign languages.

Allied Subjects. History, Archaeology, Classics, Modern Languages; others, exceptionally, by arrangement.

Program for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) a written (or written and oral) examination to test the candidate's ability to place this topic in its art-historical context.

Program for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examination consists of four written papers and an oral examination on four areas of art-history (or on three and one allied subject). After two or three years at Bryn Mawr, students normally go abroad for a period of whole-time research on their dissertations.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

SEMINARS AND GRADUATE COURSES

Four one-term seminars, on widely spaced topics that change from year to year, are annually given, in addition to individual units of

[1] On leave, 1969-70.

supervised work. Graduate students are sometimes advised to take selected intermediate (Mediaeval, Renaissance, Baroque, or modern art) or advanced undergraduate courses. Topics for 1969-70:

Mr Mitchell: *The Patronage of Julius II* (semester I).

Mr Snyder: *Topics in Mediaeval Art* (semester I).

Mr Marks: *Historicism and Primitivism in Modern Painting* (semester II).

Mr Summers: *Art in the Court of Cosimo I de 'Medici* (semester II).

ADVANCED UNDERGRADUATE COURSES

311b. *Aspects of Mediaeval Art:* Mr Snyder.

312b. *Topics in Renaissance Art:* Mr Mitchell.

313a. *American 20th Century Sculpture:* Mr Summers.

314a. *Cubism:* Mr Marks.

History of Religion

Rufus Jones Professor of History of Religion:
Howard C. Kee PHD *Chairman*

Director of Libraries and Professor of History:
James R. Tanis TH D

Associate Professor of Philosophy: Jean A. Potter PHD

A degree program at the graduate level is not offered in History of Religion. For work in this area, students should consult the offerings of the Department of History. The courses listed below are open to graduate students, and may be taken for graduate credit with permission of the major department.

UNDERGRADUATE COURSES

207a. *Jesus and the Gospel Tradition:* Mr Kee.

208b. *Paul and the Rise of Gentile Christianity:* Mr Kee.

210b. *Mediaeval Philosophy:* Miss Potter.

301a. *Gnosticism:* Mr Kee.

302b. *Jewish Antecedents of Early Christianity:* Mr Kee.

Italian

Lecturers: Nancy Howe MA
Nicholas Patruno MA

No graduate work is offered in Italian. The courses listed below are open to graduate students and may be taken for graduate credit with the permission of the major department.

201. *Classics in Italian Literature:* Mr Patruno.
202. *Dante:* Mr Patruno.
303. *Italian Literature of the Rinascimento:* Miss Howe.

Latin

Professor: Agnes Kirsopp Michels PHD *Chairman*
Associate Professor: Myra L. Uhlfelder PHD
Assistant Professor: Russell T. Scott PHD
Instructor: Gregory W. Dickerson MA

Prerequisites. An undergraduate major or minor, consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, Ancient History, Linguisitics, or, for students whose special interest is in the Mediaeval period, Mediaeval History or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit, graduate or undergraduate, in an allied field. Students will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be those offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examination as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examination consists of: two four-hour written papers on Latin Literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Mediaeval Latin Literature, Epigraphy, Palaeography, the History of Classical Scholarship; one four-hour written paper in the field of the allied subject; a general oral examination. Students whose major interest is in the Mediaeval period will take the two examinations in Latin Literature, one in Mediaeval Latin Literature, and a fourth in a field related to the Middle Ages or to the transmission of the Classics. Before admission to the Preliminary Examination, all students must pass tests in sight translation of Latin and Greek. The Final (oral) Examination will be on the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Seminars will be selected in a sequence planned so that candidates for the doctorate will distribute their work over the following four groups. Seminars run for one semester unless noted.

Group I—*Republican and through the Augustan Age:*

Roman Comedy.
Elegy.
Lucretius.
Catullus.
Cicero's Letters and Orations.
Cicero's Philosophical Works.
Historiography from the Later Republic through the Augustan Age (two semesters).
Augustan Poetry (two semesters).

Group II—*Silver Age through the Antonine Period:*

Silver Age Poetry (two semesters).
Tacitus.
Roman Satire.
Petronius and Apuleius.

Group III—*Late Empire and Middle Ages:*

History of the Late Empire.

Literature of the Late Empire.

The Platonic Tradition in the West (Late Empire and Middle Ages).

Latin Literature of the Early Mediaeval Period (two semesters).

Latin Literature of the Twelfth Century (two semesters).

Group IV—

Proseminar: Background Reading.

The Classical Tradition: Scholarship and the Transmission of Texts (two semesters).

Roman Rhetoric (two semesters).

Roman Topography and Monuments.

SELECTED UNDERGRADUATE COURSES

[301a. *Livy and Tacitus:* Mr Scott.]

[301b. *Vergil's Aeneid:* Mrs Michels.]

302a. *Lucretius:* Mrs Michels.

302b. *Cicero and Caesar:* Mr Scott.

Mathematics

Professors: John C. Oxtoby MA *Chairman*
Frederic Cunningham, Jr. PHD
Associate Professor: Ethan D. Bolker PHD
Assistant Professor: Martin Avery Snyder PHD

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It usually includes also an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses or directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only.

Mr Bolker:

Hilbert Space.
Topological Groups.
Banach Algebras.

Mr Cunningham:

Functional Analysis.
General Topology.
Linear Spaces.
Theory of Functions.

Mr Oxtoby:

Ergodic Theory.
Measure Theory.
Point Set Topology.
Theory of Functions.

Mr Snyder:

Applied Mathematics.
Numerical Analysis.
Partial Differential Equations.
Magneto-Hydrodynamics.

Journal Club. A Mathematical Colloquium at the University of Pennsylvania meets approximately every two weeks. Lectures by visiting mathematicians are frequently presented also at Haverford and Swarthmore Colleges.

SELECTED UNDERGRADUATE COURSES

Interdepartmental Course 220c. Introduction to Automatic Computation: Mr Snyder and members of several Departments.

301. *Advanced Calculus:* Mr Oxtoby.
303a. *Introduction to Abstract Algebra:* Mr Cunningham.
303b. *Topics in Algebra:* Mr Bolker.
[307. *Numerical Analysis:* Mr Snyder.]
[308. *Introduction to Applied Mathematics:* Mr Snyder.]
310. *Theory of Functions of a Complex Variable:* Mr Oxtoby.
[312b. *Topology:* Mr Cunningham.]

Mediaeval Studies

Associate Professor of Philosophy: Jean A. Potter PHD *Chairman*
Professor of History of Art: Charles Mitchell MA BLITT
Professor of Spanish: Joaquín González Muela *D en FL*
Associate Professor of English: Robert B. Burlin PHD
Associate Professor of History: Charles M. Brand PHD
Associate Professor of History of Art: James E. Snyder PHD
Associate Professor of Latin: Myra L. Uhlfelder PHD
Associate Professor of Music: Isabelle Cazeaux PHD

Graduate work for the M.A. in the mediaeval field may be done either under a particular department or under the Mediaeval Studies Committee. Doctoral studies in the mediaeval period will usually come under the supervision of a particular department; in exceptional cases students with outstanding preparation will be permitted to take the Ph.D. in Mediaeval Studies.

Mediaeval work in a particular department will fall under the regulations of that department. For work under the Mediaeval Studies Committee the regulations are as follows:

Prerequisites. The committee must be satisfied that all candidates for admission have done sufficient undergraduate work to undertake graduate studies in the mediaeval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, and two modern languages. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to an examination. The Final Examination may be either written (four hours) or written and oral (three hours - one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation.

A satisfactory Preliminary Examination in two mediaeval fields and one allied field, written and oral, will be required. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

See under the various Departments.

Music

Professor and Director of the Chorus:
Robert L. Goodale BMUS AAGO *Chairman*
Professor and Director of Ensemble Groups: Agi Jambor M A[1]
Associate Professor: Isabelle Cazeaux PHD
Visiting Lecturer: John H. Davison PHD

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The Final Examination covers the subject matter of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

[1] On leave, semester I.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:
Seminar in Musicology.
Mr Goodale:
Music of the Twentieth Century.
Mme Jambor:
The Interpretation of Music.
Mr Davison:
Theory of Music.

SELECTED UNDERGRADUATE COURSES

201. *Romantic Music:* Miss Cazeaux.
202. *Advanced Theory and Analysis:* Mr Goodale.
[203a. *Bach:* Mme Jambor.]
203b. *The Classical Period:* Mme Jambor.
205a. *Musical Criticism:* Miss Cazeaux.
301a. *Music of the Twentieth Century:* Mr Goodale.
[301b. *Opera and Music Drama:* Miss Cazeaux.]
302a. *Mediaeval and Early Renaissance Music:* Miss Cazeaux.
302b. *Late Renaissance and Early Baroque Music:* Miss Cazeaux.
303b. *Orchestration:* Mr Goodale.
304b. *Interpretation of Music:* Mme Jambor.
305. *Free Composition:* Mr Goodale.

Philosophy

Professors: Milton C. Nahm B LITT PHD *Chairman*
José María Ferrater Mora *Lic F L*
George L. Kline PHD
Isabel S. Stearns PHD
Associate Professor: Jean A. Potter PHD
Lecturers: Mary Patterson McPherson PH D
George E. Weaver Jr MA

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy and subjects in most fields of the Humanities, Mathematics, and Natural and Social Sciences.

Language Requirements. For the M.A., one modern language. French and German for the Ph.D. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examination for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr Nahm: *Aesthetics.*

A systematic and historical analysis in the philosophy of art.

Ethics.

A study of Plato's and Aristotle's or of Kant's ethical theories.

Kant.

A detailed study of the main themes of the *Critique of Judgment.*

Miss Stearns: *Metaphysics.*

A study of such metaphysical problems as causation, the nature of the individual, the person, reality and value.

Epistemology.

A systematic and historical study of such problems as the nature of universals, the nature of language, and the function of different agencies in knowledge.

Mr Ferrater Mora: *Philosophy of Language.*

A study of such problems as medium and message, meaning and reference, speech acts, and symbolic forms.

History of Philosophic Concepts.

The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Kant.
A detailed study of the main themes of the *Critique of Pure Reason.*

Mr Kline: *Whitehead.*
A study of topics drawn from *The Concept of Nature, Science and the Modern World, Process and Reality,* and *Adventures of Ideas.*

Hegel.
An intensive study of the *Phenomenology of Mind.*

Ethics.
A close examination of classical texts in ethical theory, with some attention to twentieth-century authors.

Miss Potter: *Mediaeval Philosophy.*
Studies in selected problems and texts in mediaeval philosophical thought.

Continental Rationalism.
A detailed study of Descartes and Spinoza.

Philosophy of Religion.
A systematic study of the metaphysical and epistemological problems of theism.

Mr Weaver: *Deductive Logic.*
A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Journal Club. Graduate students have the privilege of becoming auxiliary members of the Fullerton Club. The club meets once a month. Papers are read by visiting lecturers and by members of the faculties of Bryn Mawr College and of nearby colleges and universities.

SELECTED UNDERGRADUATE COURSES

202a. *Plato:* Miss Stearns.
215b. *Kant.*
250a. *Logic:* Mr Weaver.
301b. *Recent Metaphysics.*
302b. *Philosophy of Criticism.*
304a. *Russian Philosophy:* Mr Kline.
[305a. *The Concept of Time:* Mr Kline.]
[312b. *Philosophy of Science:* Mr Weaver.]

Physics

Professors: Rosalie C. Hoyt PHD *Chairman*
Walter C. Michels PHD
John R. Pruett PHD
Assistant Professor: John R. Olson PHD

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g., Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Candidates for the degree of Doctor of Philosophy customarily offer Physics as the major subject and Mathematics as an allied subject. If a candidate's mathematical preparation is accepted as being adequate for the doctoral in Physics, Chemistry, Biology, or Geology may be substituted for Mathematics. Alternatively, the candidate may offer Experimental Physics or Theoretical Physics as a major subject with the other being offered as an allied subject.

Language Requirements. For the M.A. and the Ph.D. degrees, two languages are required; one, French, German or Russian; the second, "computer language," including FORTRAN.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level. Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics. The M.A. examination is a one-hour oral examination.

Program and Examinations for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is

broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Three or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr Michels, Miss Hoyt, Mr Pruett, Mr Olson.

Theoretical Physics

Mr Michels: *Electromagnetic Theory.*

Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr Pruett: *Quantum Mechanics.*

Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

At least one of the following advanced seminars is given each year:

Mr Olson, Miss Hoyt: *Chemical Physics and Biophysics.*

Interatomic and intermolecular forces, vibrational and rotational states of molecules, energy transfer through collisions. Dynamical properties of biological membranes, the biophysics of photosynthesis and photosensitive receptors. Prerequisite: Quantum Mechanics.

Mr Michels: *Physics of the Solid State.*

Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr Pruett: *Nuclear Physics.*

An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

201a. *Electricity and Magnetism:* Mr Pruett.
202b. *Optics:* Mr Pruett.
301a. *Classical Mechanics:* Mr Olson.
302b. *Atomic and Nuclear Structure:* Mr Olson.
303b. *Thermal Properties of Matter:* Mr Olson.
304. *Introduction to Theoretical Physics:* Miss Hoyt.
306a. *Unified Classical Physics:* Mr Michels.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Gertrude C. K. Leighton A B LL B *Chairman*
Melville T. Kennedy, Jr. PH D[1]

Dean of the College: Dorothy Nepper Marshall PH D

Associate Professor: Charles E. Frye PH D

Assistant Professors: Marc H. Ross PH D[1]
Stephen Salkever M A

Lecturers: William E. Steslicke PH D
Roger Tauss M A

Prerequisites. Good undergraduate training in political science and related subjects.

Major and Allied Fields. The major fields in political science are political philosophy and theory, western comparative politics, non-western comparative politics, American political process, American constitutional law and international politics and law. Allied fields may be chosen in the other social sciences, in history and philosophy, and, with the special permission of the Department, in certain subjects in literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. One modern foreign language for the M.A. Two modern foreign languages for the Ph.D.

Program and Examination for the M.A. The program consists of three units of work in political science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. These fields are tested by preliminary written and oral examination. The dissertation is defended in the oral examination.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Mr Frye:

European Comparative Politics.

[1] On leave, 1969-70.

Miss Leighton:
International Law.
Law and Psychiatry.

Mr Salkever:
Constitutional Law:
Topics in Normative and Empirical Theory.

Mr Steslicke:
Asian Foreign Policies.
Topics in Japanese Political Development.
Comparison of Western, non-Western Modernization.

Mr Tauss:
American Politics.
Urban Politics.

SELECTED UNDERGRADUATE COURSES

301a. *Law and Society:* Miss Leighton.
302b. *Law, Policy and Personality:* Miss Leighton.
[303a. *Problems in International Politics:* Mr Kennedy.]
304b. *West European Integration:* Mr Frye.
[308a. *American Political Theory.*]
[309b. *Selected Topics in Modern Political Thought:* Mr Frye.]
310a. *Problems in Comparative Politics:* Mr Frye.
311a. *Theory and Practice in Political Philosophy:* Mr Salkever.
312a. *Political Modernization in China and Japan:* Mr Steslicke.
[313b. *Problems in Constitutional Law.*]
218a. *Urban Politics:* Mr Tauss.
316b. *Urban Affairs:* Mr Tauss.

Psychology

Professors: Richard C. Gonzalez PHD *Chairman*
Rachel D. Cox PH D
Visiting Professor: Larry Stein PH D
Associate Professors: Robert S. Davidon PHD
Matthew Yarczower PHD
Assistant Professor: Earl Thomas PHD
Visiting Lecturers: Robert E. Lana PHD
Sandra Scarr PH D

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test and on the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Chemistry, Mathematics, Philosophy and Physics. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. Candidates for the Ph.D. must pass examinations in two of the three languages. With permission of the Department, knowledge of computer languages (including FORTRAN) and usage, tested by written examination, may be substituted for one of the two languages.

Program and Examinations for the M.A. The program of work must include three units (six one-semester seminars or courses), which usually will be chosen from the group of seminars and courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each must pass a written examination in Statistics. The Preliminary Examination consists of written papers in the four areas listed below under the heading of Graduate Seminars, or, with the approval of the Department, in three of those areas and in one of the allied subjects listed above. The Final Oral Examination deals with the dissertation and the field in which it was written.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

GRADUATE SEMINARS

Seminars are offered in the following four areas:

Comparative Psychology
Learning
Sensory Processes and Perception
Brain Mechanisms

Statistics (Graduate Course)

SELECTED UNDERGRADUATE COURSES

201a. *Animal Learning:* Mr Gonzalez, Mr Yarczower.
201b. *Human Learning:* Mr Gonzalez, Mr Yarczower.
202a. *Experimental Methods and Statistics:* Mr Davidon.
301. *Physiological Psychology:* Mr Thomas.
305a. *Perception:* Mr Davidon.
306b. *Psychological Measurement:* Mr Davidon.

Russian

Professor: Frances de Graaff PHD *Chairman*
Assistant Professors: Irene Nagurski PHD
Ruth L. Pearce PHD
Professor of Philosophy: George L. Kline PHD

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. For the M.A., French or German. For the Ph.D., French, German and one Slavic language besides Russian.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:
Serbo-Croatian Language and Literature.
Pushkin and Lermontov.
Chekhov and Gorki.

Miss Nagurski:
Polish Language and Literature.
Tolstoy and Turgenev.

Mrs Pearce:
History of the Russian Language.
Old Church Slavonic.
Advanced Russian Grammar.

Mr Kline:
Russian Philosophy.

SELECTED UNDERGRADUATE COURSES

201. *Readings in Russian Literature:* Miss Nagurski.
[302. *Pushkin and His Time:* Miss de Graaff.]
303. *Russian Literature of the Twentieth Century:* Miss de Graaff.

Social Work and Social Research

The Carola Woerishoffer Graduate Department of Social Work and Social Research

Professors: Bernard Ross PHD
Director of the Department
Philip Lichtenberg PHD
Katherine D. K. Lower PHD
Martin Rein PHD

Associate Professors: Merle Broberg MSS
Jean Haring DSW
Jane C. Kronick PHD
Jeanne C. Pollock MSW
William W. Vosburgh PHD[1]
Greta Zybon DSW

Assistant Professors: Ronald M. Feinstein MSW
Solomon Gethers MSS
Sally E. Hollingsworth MSS
Dolores G. Norton PHD

Visiting Lecturers: Arthur C. Huntley MD
Robert Adrian Sinfield *Dipl. Soc. Admin.*

Lecturers: Ivy Bennett MSW
Dolores Melching MA
Ruth O. Stallfort MS
Alice Whiting MSW
Merilyn Woods PHD

[1] On leave, semester II, 1969-70.

BRYN MAWR COLLEGE

Professor of Education and Psychology: Rachel D. Cox PHD
Professor of Sociology: Eugene V. Schneider PHD

The degrees of Doctor of Philosophy and Master of Social Service are awarded in the Department. The program for the degree of Master of Social Service is described on page 14. The statement here refers to the Ph.D. in Social Work and Social Research. For full information, including courses offered, write to the Director, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

The curriculum for the Ph.D. degree includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses, accounting for about one half of the program; through electives that are considered pertinent to individual interests, which may be taken in other departments within the College, or at other colleges or universities; and through special experiences that are directed toward specific career goals, including teaching and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students participate in research under the direction of members of the faculty.

Prerequisites. Applicants for the Ph.D. are expected to hold a Master's degree from an accredited school of social work. Successful experience in social work practice after this degree is valued but in certain situations may not be required.

Language Requirements. A reading knowledge of one modern foreign language is required. The preferred language is French but in special cases, with the approval of the Department, another language may be substituted.

General Requirements. The program of study is individually planned to cover major and allied fields. Two academic years of full-time study encompassing fourteen semester courses will normally be suggested. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields. The Final Examination which is oral is devoted to the subject of the dissertation.

Sociology

Professor: Eugene V. Schneider PH D *Chairman*
Assistant Professor: Judith R. Porter PH D[1]
Lecturer: Martin Wenglinsky M A
Visiting Lecturer: A. Paul Hare PH D

Associate Professor of Social Work: Jane C. Kronick PH D

Prerequisites. An undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students may wish to take some work in allied fields: Anthropology, Economics, Psychology, Political Science, History and Statistics. In addition, courses in Sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan.

Language and Statistics Requirement. Candidates for the M.A. must offer one modern language and Statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and Statistics. The statistics requirement will be tested by the Department, or may be met by passing a graduate course in Statistics.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examination for the Ph.D. The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in General Sociology, Sociological Theory, and two special fields, one of which may be an allied field. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

[1]On leave, 1969-70.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

Sociological Theory
Social Stratification
Sociology of Religion
Personality and Social Structure
Sociology of Knowledge
Industrial Sociology
Race Relations
Sociology of Poverty
Political Sociology
Contemporary Theories of Human Nature

SELECTED UNDERGRADUATE COURSES

207a. *Race Relations:* Mr Fenn
208b. *Personality and Social Structure:* Mr Schneider.
220a. *Political Sociology:* Mr Wenglinsky.
222b. *Sociology of Literature:* Mr Wenglinsky.
227b. *Sociology of Occupations and Professions:* Mr Wenglinsky.
302a. *Social Theory:* Mr Schneider.

Spanish

Professor: Joaquín González Muela *D en FL*
Associate Professor: Willard F. King PHD *Chairman*
Assistant Professors: Eleanor K. Paucker PHD
Phyllis Turnbull *D en FL*
Visiting Lecturer: Enrique Tierno-Galván *D en FL*

Dean of the College: Dorothy Nepper Marshall PHD
Professor of Philosophy: José María Ferrater Mora *Lic FL*

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition. Applicants for admission in Spanish are asked to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology; Spanish-American Literature.

Language Requirements. For the M.A. either German or one Romance language other than Spanish. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin must be included in the graduate program.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed with the member of the Department with whom the candidate plans to work on the dissertation. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

Ideological Currents in Renaissance Spain (semester I).

Cervantes: Drama, Poetry and *Novel* (with the exception of *Don Quijote)* (semester II).

The History of the Spanish Language (semester I).

The Mediaeval Castilian Epic and Lyric (semester II).

[*Prose Fiction of the Golden Age.*
From *La Celestina* to *El Criticón* (semesters I and II).]

[*The Poetry of the Golden Age.*
The evolution of Spanish poetry from Garcilaso to Góngora (semester I).]

[*Problems in the Golden Age Theater.*]

Studies in Modern Spanish Literature.
The development of the philosophical and aesthetic thought of Ortega y Gasset (semester I).

Studies in Spanish-American Literature.
The gaucho literature of Argentina (semester II).

SELECTED UNDERGRADUATE COURSES

302a. *Mediaeval Spanish Literature:* Miss Turnbull.
303a. *Modern Novel in Spain:* Mr Tierno-Galván.
303b. *Modern Spanish Poetry:* Mr. González Muela.
[304a. *Drama of the Golden Age:* Mrs King.]
[304b. *Cervantes:* Mrs King.]

Fees

Application fee (citizens of the United States and Canada) $10.

Tuition

Full-time students: $1500 a year, payable one half early in the first semester and the other half early in the second semester. Beginning September 1970, the tuition charge will be $1800 a year.

Part-time students: $500 a year (or $250 a semester) for each seminar, course, or unit of supervised work. Beginning September 1970, the fee will be $600 a year (or $300 a semester).

Course in reading German: $25 a semester.

Auditors: Fees for auditors are the same as those for students registered in courses for credit.

Continuing enrollment for Ph.D. candidates: Candidates who have completed the required academic units and who are continuing independent work on their dissertations either in the vicinity of the Graduate School or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of $25 each semester.

Students may, with the approval of their department, apply to the Graduate Committee for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Laboratory fees

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at $15 per course per semester.

Fees for Ph.D. candidates using Bryn Mawr College laboratories for dissertation research will be determined in consultation with each department.

Payment of Fees

No reduction of the tuition fee will be made on account of absence, withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College, Book Shop, or other college facility.

The Education Plan is available for those who prefer to pay fees in monthly installments.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee	$1500
Residence in the Graduate Residence Center	1000

Contingent

Continuing Enrollment Fee	$ 50
Course in Reading German	50
Dispensary Fee	25
Health Insurance (foreign students)	45
Social Work Field Instruction Fee	20
Laboratory Fee for undergraduate courses (not for graduate credit), per course	30
Graduation Fee	25
Charge for microfilming Ph.D. dissertation	30
Room on campus Christmas and spring vacations ($1.50 per day—maximum 30 days)	45

Graduation fee for all graduate degrees is $25.

Exclusion

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of generous donors, from government agencies and private foundations. Many of these awards are available to both men and women. Some may be granted only to women. Fellowships carry a stipend of $1500 in addition to tuition and are available only to students who are citizens of the United States or Canada and who have completed one full year of graduate work. (The stipend beginning in the year 1970-71 will be $2000 in addition to tuition.) Graduate scholarships have a value of $1000 in addition to tuition and may be held by citizens and non-citizens and by students at all levels of graduate work. Other awards vary in value.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School and must be filed complete not later than February 15. The documents are the same as for admission. In writing for forms applicants should state their fields of concentration. Applications from foreign students must be received not later than January 25. Test of English as a Foreign Language score must be included. Therefore this test, or an appropriate substitute, must be taken the previous October.

All awards will be announced in March.

Fellowships in the Award or Nomination of the College

Bryn Mawr College Fellowships of $1500 in addition to tuition are offered annually in Anthropology, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History and Philosophy of Science, History of Art, Latin, Mathematics, Mediaeval Studies, Music, Philosophy, Physics, Political Science, Psychology, Russian, Social Work and Social Research, Sociology, and Spanish. (The stipend beginning in the year 1970-71 will be $2000 in addition to tuition.)

Marion Louise Ament Fellowship. Graduate fellowships in Spanish are occasionally awarded from this fund established in 1966 in honor of Marion Neustadt, Class of 1944.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a woman graduate student from the inter-

est on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. A fellowship or scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Howard Lehman Goodhart Fellowship is awarded to an advanced student, man or woman, in Mediaeval Studies.

The Helen Schaeffer Huff Memorial Research Fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be $4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships for men and women.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced men and women graduate students in History of Art.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from friends of Miss McBride among the alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion. The fellowship is awarded in any department to a woman candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

National Defense Graduate Fellowships under Title IV of the National Defense Education Act are available to citizens of the United States who plan to work for the Ph.D. degree and to enter a career of college teaching. These fellowships, designed primarily for first- or second-year students, men and women, may be held in the Departments of Biology, Chemistry, Classical and Near Eastern Archaeol-

ogy, English, French, German, Greek, History, History of Art, Latin, Mathematics, Philosophy, Psychology and Spanish.

National Science Foundation Graduate Traineeships. Traineeships are available to first-year and advanced graduate students, men and women, in mathematics, the natural sciences and certain fields in the social sciences.

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

The Ida H. Ogilvie Fellowships in Geology are awarded to men and women each year from part of the income of the Ida H. Ogilvie Fund, which was established in 1965 through the bequest of Dr. Ogilvie, a member of the Class of 1896.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides two or more fellowships to advanced students interested in public affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a woman graduate student working toward the doctorate. This award may be made to a beginning graduate student.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics and psychophysics.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships or other grants as seem appropriate.

Fellows by Courtesy. Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

Travelling Fellowships

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr W. Hunter Workman. It is awarded to a woman who is a candidate for the degree of Doctor of Philosophy at Bryn Mawr College and who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs Anna Woerishoffer in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, and who shows ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or *Scholarship* in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

Fellowships and Scholarships in Social Work and Social Research

A variety of financial resources is available for students in the Department of Social Work and Social Research. The terms of the awards differ and will be discussed with the applicant at the time of the admission interview. Application for awards other than those to Bryn Mawr College may be made up to May 1 preceding the academic year for which they are desired.

Bryn Mawr College Fellowships and Scholarships. The Carola Woerishoffer Fellowship, value $1500 in addition to tuition, is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. (The stipend beginning in the year 1970-71 will be $2000 in addition to tuition.) *The Carola Woerishoffer Scholarship,* value $1,000 in addition to tuition, is open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

United States Department of Health, Education, and Welfare. The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

Grants from the Commonwealth of Pennsylvania. The Commonwealth of Pennsylvania has several offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania. Other states have similar educational programs.

Graduate Scholarships

Bryn Mawr College Graduate Scholarships of $1000 each in addition to tuition are offered annually to men and women for work in any department of the Graduate School.

Alumnae Association Scholarships. Alumnae Association Scholarships are provided from the contributions of former graduate students to the Alumnae Fund. District III, Western Pennsylvania Scholarship Committee, and the Bryn Mawr College Canadian Scholarship Committee each assist in the support of a Bryn Mawr scholar.

Tuition Scholarships are available to men and women whose homes are in the neighborhood.

Scholarships for Foreign Students. The Marguerite N. Farley Scholarships for Foreign Students, of the value of $1000 each in addition to tuition, are offered to students from any country outside the United States and Canada. Occasionally a fellowship is awarded from this fund to a foreign student who has completed at least one year at Bryn Mawr.

A Special British Scholarship, of the value of $1000 in addition to tuition, is awarded to students from the United Kingdom sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of $1100 each in addition to tuition, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

These scholarships are designated for foreign students who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in the Graduate Residence Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. Work is given in seminars or small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently.

Duties of Fellows and Scholars

Fellows and Graduate Scholars are required to carry a full academic program at Bryn Mawr College. They are expected to attend official functions and to perform a limited amount of service for the College. Fellows are not permitted to accept other appointments. Scholars, with the permission of the Dean of the Graduate School, may undertake a limited amount of paid work. Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

Graduate Assistantships

Teaching Assistantships are available in many Departments. These positions carry salaries of $2300-$2500 for half-time work, $1550-$1700 for one-third time work, and include tuition without fee. The duties differ with departments. In departments of science, assistantships provide teaching and laboratory experience.

Research Assistantships are available in the Departments of Biology, Chemistry, Physics, Psychology and Social Work. The Department of Geology offers the J. H. Fitzgerald Dunning Research Assistantship.

Tuition Grants for Part-time Students

A grant from the Samuel S. Fels Fund for three years, beginning in 1967, has increased the funds available to assist men and women students who are unable to undertake full-time graduate work. Awards are made, primarily for tuition, on the basis of high academic standing. Applications are due February 15 for awards to be announced in the late spring. Forms are available at the Graduate Office.

Graduate Prize

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman.

Loan Funds

National Defense Student Loan Program—NDEA Title II. Loans up to $2500 a year are available to qualified graduate students under this Title. They are open to half-time as well as full-time students. Partial loan cancellation is offered to prospective teachers. Applications are due April 1 for consideration in the spring and September 1 for loans to be made in the early fall.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the Committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is three per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, Wyndham, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) to assist in the education of young women attending Bryn Mawr College. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is $500. No interest is charged while the student is at Bryn Mawr. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves Bryn Mawr. The principal is to be repaid within five years from the time the student leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 and is available for men and women. The maximum amount which can be borrowed for any given academic year is $500. Arrangement for repayment is similar to that for the Mary Hill Swope Loan Fund, listed above.

Office of Career Planning and Placement

The Office of Career Planning and Placement is concerned with student and alumnae career, summer, and self-help job interests.

Graduate students may consult on careers to match their interests and experience, for information on specific employers and current job openings, and on techniques of job-hunting. Career Planning and Placement also collects, maintains, and makes available to employers, credentials including biographical data and faculty and employer references for those who register with the office.

Students may also obtain part-time employment during the year both on-and off-campus through this office. Some of the jobs available are clerical, library work, typing, waitressing, childcare, and sales. Information on summer jobs is collected and a newsletter on summer opportunities sent out to students periodically. The staff of the office is available for consultation on any of these programs.

Government regulations severely limit the employment of students of foreign citizenship in the United States.

Graduate Student Council

The Graduate Student Council, composed of one elected representative from each department offering a graduate program, serves as a vehicle through which graduate students may voice their concerns and needs to the faculty and administration. When appropriate, the Council also carries out specific programs to meet these needs.

The Council works through committees such as those concerned with the Library and with graduate student housing. In addition, representatives of the Council sit on various college committees.

The Graduate Residence Center

Residence for about fifty graduate students is provided in the Graduate Residence Center and Annex at the north end of the campus. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will be refunded only if the student has been called into service in the armed forces of the United States.

A student who has reserved a room in the Residence Center or Annex will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School before September 1, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second. Allowance cannot be made for dietary restrictions.

Residence in the Center is for the academic year only—from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of $1.50 a day (meals not included). Baggage will be accepted at the College after September 2. It should be sent prepaid, addressed to the Graduate Residence Center and marked with the owner's name.

Health

The College maintains an 18-bed infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in the Graduate Residence Center and the Annex and by students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by graduate students living in the Residence Center or Annex entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven day period, the fee is $15.00 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet the expense.

Graduate students who do not live in the Residence Center or Annex may pay a $25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. The fee is not billed automatically and is not covered by scholarship or other grants. The Dispensary Fee is to be paid in the Comptroller's Office where a Dispensary card is issued which must be shown when the student reports to the Dispensary for treatment. Graduate students who do not live in the Residence Center or Annex are not given bed care in the Infirmary except under exceptional conditions at a charge of $15.00 per day.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Certificates Required

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the three-year period prior to entering the Graduate School and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this certificate will be vaccinated on arrival and charged a fee of one dollar. Non-resident students will not be permitted to attend classes without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Residence Center or Annex are asked to submit reports of recent

medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization within three years of entrance against diphtheria and tetanus, by toxoid, and against poliomyelitis. A report of an Intradermal Tuberculin test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by his personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is $27.80 for a full year starting October 1. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about $45.00 for a twelve-month period, starting in mid-September.

The Trustees of Bryn Mawr College

President
Edmund B. Spaeth, Jr.

Vice-Presidents
Millicent Carey McIntosh[1]
Elizabeth Gray Vining[2]

Treasurer
John E. Forsythe

Secretary
Millicent Carey McIntosh[1]

Assistant Treasurer
J. Tyson Stokes

Assistant Secretary
Katharine Budd Whelihan†

†*Deceased.*

Trustees
Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes[3]
Edmund B. Spaeth, Jr.
Thomas B. Harvey, Jr.

The Board of Directors

Chairman
Edmund B. Spaeth, Jr.

Vice-Chairmen
Eleanor Little Aldrich[4]
Elizabeth Gray Vining[2]

Treasurer
John E. Forsythe

Secretary
Millicent Carey McIntosh[1]

Assistant Treasurer
J. Tyson Stokes

Directors
Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes[3]
Edmund B. Spaeth, Jr.

Directors (Cont'd)
Thomas B. Harvey, Jr.
Katharine Elizabeth McBride
Eleanor Little Aldrich[4]
J. Tyson Stokes
Phyllis Goodhart Gordan[5]
Alice Palache Jones[6]
Agnes Clement Ingersoll[7]
Lewis N. Lukens
Anne Woodward Pusey[8]
Alumnae Director 1964-1969
Elizabeth Pearson Horrocks[9]
Alumnae Director 1965-1970
Margaret Tyler Paul[10]
Alumnae Director 1966-1971
Sue Mead Kaiser[11]
Alumnae Director 1967-1972
Emily Townsend Vermeule[12]
Alumnae Director 1968-1973
Edith Harris West[13]
Alumnae Director, 1969-1974

By Invitation
Barbara Cooley McNamee[14]
President of the Alumnae Association

Standing Committees of the Board of Directors for 1969

Executive Committee
Judge Spaeth *Chairman*
Mrs Aldrich
Mr Cadbury
Mr Forsythe
Mrs Gordan
Miss McBride
Mrs McIntosh
Mrs Pusey
Mr Rhoads
Mr Stokes

Buildings and Grounds Committee
Mr Rhoads *Chairman*
Mrs Gordan *Vice-Chairman*
Mrs Horrocks
Mrs Ingersoll
Mrs Kaiser
Miss McBride
Mrs Paul
Mr Price

Library Committee
Mrs Gordan *Chairman*
Mrs Aldrich
Miss McBride
Mrs Pusey
Mrs Vermeule
Mrs Vining

Finance Committee
Mr Forsythe *Chairman*
Mrs Jones
Mr Price
Mr Stokes
Mr Terrell
Mr Wood

Religious Life Committee
Miss McBride *Chairman*
Mr Cadbury
Mrs Ingersoll
Mrs Pusey
Dr Rhoads
Mrs Vining

[1] Mrs Rustin McIntosh
[2] Mrs Morgan Vining
[3] Mrs Francis J. Stokes
[4] Mrs Talbot Aldrich
[5] Mrs John D. Gordan
[6] Mrs Russell K. Jones
[7] Mrs C. Jared Ingersoll
[8] Mrs Nathan M. Pusey
[9] Mrs Thomas S. Horrocks
[10] Mrs Samuel H. Paul
[11] Mrs Edgar F. Kaiser
[14] Mrs Cornelius C. Vermeule III
[13] Mrs William Nelson West
[14] Mrs Daniel V. McNamee, Jr.

Faculty and Staff in the Graduate School *for the Academic Year 1969–70*

Katharine Elizabeth McBride PHD (Bryn Mawr College) LLD LHD SCD *President of the College*

Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School*

Dorothy Nepper Marshall PHD (Bryn Mawr College) *Dean of the College*

Joseph A. Airo-Farulla MA (University of Washington) *Lecturer in History*

Horace Alwyne FRMCM (Royal Manchester College of Music) *Professor Emeritus of Music*

Jay Martin Anderson PHD (Harvard University) *Associate Professor of Chemistry*

Hans Bänziger PHD (University of Zurich) *Visiting Lecturer and Associate Professor-elect of German*

Audrey Barnett PHD (Indiana University) *Assistant Professor of Biology*[1]

Katrin T. Bean PHD (Bryn Mawr College) *Lecturer in German*

Ivy Bennett MSW (Smith College) *Part-time Lecturer in Social Work and Social Research*

Adele F. Berlin AB (University of Pennsylvania) *Part-time Instructor-elect in Classical and Near Eastern Archaeology*

Ernst Berliner PHD (Harvard University) *W. Alton Jones Professor of Chemistry*

Frances Bondhus Berliner PH D (Bryn Mawr College) *Part-time Lecturer in Chemistry*

L. Joe Berry PH D (University of Texas) *Professor of Biology and Secretary of the Faculty*

Sandra M. Berwind PH D (Bryn Mawr College) *Part-time Lecturer in English*

Eleanor A. Bliss SC D (Johns Hopkins University) *Dean Emeritus*

Ethan D. Bolker PHD (Harvard University) *Associate Professor-elect of Mathematics*

Charles M. Brand PHD (Harvard University) *Associate Professor-elect of History*

[1] On leave, 1969-70.

Merle Broberg MSS (Bryn Mawr College) *Associate Professor-elect of Social Work and Social Research*

Robert B. Burlin PH D (Yale University) *Associate Professor of English*

Robert H. Butman M A (University of North Carolina) *Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre,* on joint appointment with Haverford[1]

Rhys Carpenter PH D (Columbia University) LITT D *Professor Emeritus of Classical Archaeology*

Isabelle Cazeaux PHD (Columbia University) *Associate Professor-elect of Music*

Robert L. Conner PHD (Indiana University) *Professor of Biology*

John E. Coleman PHD (University of Cincinnati) *Lecturer in Classical and Near Eastern Archaeology*

Rachel D. Cox PH D (University of Pennsylvania) *Professor of Education and Psychology*

Maria Luisa B. Crawford PH D (University of California) *Assistant Professor of Geology*

William A. Crawford PH D (University of California) *Assistant Professor of Geology*

Charles A. Culotta PH D (University of Wisconsin) *Assistant Professor of the History of Biology,* on joint appointment with the University of Pennsylvania

Roger W. Cummins PHD (University of Minnesota) *Assistant Professor of English*

Frederic Cunningham, Jr. PHD (Harvard University) *Professor of Mathematics*

Robert S. Davidon PH D (University of Pennsylvania) *Associate Professor of Psychology*

Gwenn Davis PHD (University of Michigan) *Assistant Professor of English*

John H. Davison PHD (University of Rochester) *Visiting Lecturer in Music*

Gérard Defaux, *Agrégé* (Sorbonne) *Associate Professor-elect of French*

Frances de Graaff PHD (University of Leyden) *Professor of Russian*

Frederica de Laguna PHD (Columbia University) *Professor of Anthropology*[2]

Grace Mead Andrus de Laguna PHD (Cornell University) *Professor Emeritus of Philosophy*

Charles G. Dempsey PHD (Princeton University) *Assistant Professor of History of Art*[2]

[1] On leave, semester II, 1969-70.

[2] On leave 1969-70.

Gregory W. Dickerson MA (Princeton University) *Instructor in Latin and Greek*

Max Diez PHD (University of Texas) *Professor Emeritus of German Literature*

Nancy C. Dorian PHD (University of Michigan) *Assistant Professor of German*

Lincoln Dryden PHD (Johns Hopkins University) *Professor of Geology*

Richard B. DuBoff PHD (University of Pennsylvania) *Associate Professor of Economics*

Arthur P. Dudden PHD (University of Michigan) *Professor of History*

Mary Maples Dunn PHD (Bryn Mawr College) *Associate Professor of History*[1]

Lyndsay Farrall B A (Hons) (University of Tasmania) *Assistant Professor of History and Philosophy of Science*

Ronald Feinstein MSW (University of Illinois) *Assistant Professor of Social Work and Social Research*

Charles Ghèquière Fenwick PHD (Johns Hopkins University) LLD *Professor Emeritus of Political Science*

José María Ferrater Mora *Licenciado en Filosofia* (University of Barcelona) *Professor of Philosophy*

Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School* and *Professor of History*

Grace Frank AB (University of Chicago) *Professor Emeritus of Old French*

Charles E. Frye PHD (Princeton University) *Associate Professor-elect of Political Science*

Mary Summerfield Gardiner PHD (Bryn Mawr College) *Professor Emeritus of Biology*

Solomon Gethers MSS (Bryn Mawr College) *Assistant Professor of Social Work and Social Research*

Richard C. Gonzalez PH D (University of Maryland) *Professor of Psychology*

Joaquin González Muela *D en F L* (University of Madrid) *Professor of Spanish*

Jane C. Goodale PHD (University of Pennsylvania) *Associate Professor-elect of Anthropology*

Robert L. Goodale BMUS (Yale University) AAGO *Alice Carter Dickerman Professor of Music*

Michel Guggenheim PHD (Yale University) *Professor of French*

Paul Hare PHD (University of Chicago) *Visiting Lecturer in Sociology*

[1] On leave, 1969-70.

Jean D. Haring DSW (Western Reserve University) *Associate Professor of Social Work and Social Research*

A. Irving Hallowell PHD (University of Pennsylvania) *Visiting Lecturer in Anthropology*

Sally E. Hollingsworth M S S (Bryn Mawr College) *Assistant Professor of Social Work and Social Research*

Nancy Howe MA (Johns Hopkins University) *Lecturer in Italian*

Rosalie C. Hoyt PHD (Bryn Mawr College) *Professor of Physics*

Joshua C. Hubbard PHD (Harvard University) *Professor of Econnomics*

Helen M. Hunter PH D (Radcliffe College) *Visiting Lecturer in Economics*

Arthur C. Huntley MD (Jefferson Medical College) *Visiting Lecturer in Social Work and Social Research*

Thomas Jackson PHD (Yale University) *Associate Professor-elect of English*

Agi Jambor MA (Royal Academy of Budapest) *Professor of Music and Director of Ensemble Groups*[2]

Myra Richards Jessen PHD (Bryn Mawr College) *Professor Emeritus of German*

M. Pauline Jones PHD (Bryn Mawr College) *Assistant Professor of French*

Howard C. Kee PHD (Yale University) *Rufus Jones Professor of History of Religion*

Melville T. Kennedy, Jr. PHD (Harvard University) *Professor-elect of Political Science*[1]

Anthony R. Kaney PHD (University of Illinois) *Assistant Professor-elect of Biology*

Duncan Keppie PHD (University of Glasgow) *Assistant Professor of Geology*

Philip A. Kilbride MA (Pennsylvania State University) *Lecturer in Anthropology*

Willard F. King PHD (Brown University) *Associate Professor of Spanish*

George L. Kline PHD (Columbia University) *Professor of Philosophy*

June Q. Koch PHD (Columbia University) *Lecturer in English*

Sandra I. Kohler MA (Bryn Mawr College) *Instructor in English*

Charles C. Kolb M A (Pennsylvania State University) *Lecturer in Anthropology*

Joseph Kramer PHD (Princeton) *Lecturer in English*

Rena Kreutz *Staatsexamen* (University of Bonn) *Lecturer in German*

[1] On leave, 1969-70.
[2] On leave, semester I, 1969-70.

Jane C. Kronick PHD (Yale University) *Associate Professor of Social Work and Social Research*

Catherine Lafarge PHD (Yale University) *Assistant Professor of French*

Robert E. Lana PHD (University of Maryland) *Visiting Lecturer in Psychology*

Barbara M. Lane PHD (Harvard University) *Associate Professor of History*[1]

Mabel L. Lang PH D (Bryn Mawr College) *Professor of Greek*

Richmond Lattimore PHD (University of Illinois) LITT D *Paul Shorey Professor of Greek*

Marguerite Lehr PHD (Bryn Mawr College) *Professor Emeritus of Mathematics*

Gertrude C. K. Leighton AB (Bryn Mawr College) LL B (Yale University) *Professor of Political Science*

Philip Lichtenberg PHD (Western Reserve University) *Professor of Social Research*

Katherine D. K. Lower PHD (University of Wisconsin) *Professor of Social Work and Social Research*

Isabel Gamble MacCaffrey PHD (Radcliffe College) *Visiting Lecturer in English*

Frank B. Mallory PHD (California Institute of Technology) *Professor of Chemistry*

Helen Taft Manning PHD (Yale University) *Professor Emeritus of History*

Arthur S. Marks MA (Columbia University) *Assistant Professor-elect of History of Art*

Dorothy Nepper Marshall PHD (Bryn Mawr College) *Dean of the College*

Margaret W. Masson MA (University of Oregon) *Instructor-elect in History*

Mario Maurin PHD (Yale University) *Professor of French*

Ethel W. Maw PHD (University of Pennsylvania) *Associate Professor of Education and Child Development*

Susan E. Maxfield MS (Yale University) *Associate Professor of Education and Child Development and Director of the Thorne School*

Katharine Elizabeth McBride PHD (Bryn Mawr College) *President of the College*

Mary Patterson McPherson PHD (Bryn Mawr College) *Assistant Dean of the College and Lecturer in Philosophy*

Cornelia Lynde Meigs AB (Bryn Mawr College) *Professor Emeritus of English Composition*

[1] On leave, semester II, 1969-70.

Dolores E. Melching MA (University of Chicago) *Part-time Lecturer in Social Work and Social Research*

Machteld Mellink PHD (University of Utrecht) *Professor of Classical and Near Eastern Archaeology*

Fritz Mezger PHD (University of Berlin) *Professor Emeritus of Germanic Philology*

Agnes Kirsopp Michels PHD (Bryn Mawr College) *Professor of Latin*

Walter C. Michels PHD (California Institute of Technology) *Marion Reilly Professor of Physics*

Charles Mitchell MA BLITT (Oxford University) *Professor of History of Art*

Irene Nagurski PHD (Columbia University) *Assistant Professor of Russian*

Milton C. Nahm BLITT PHD (University of Pennsylvania) *Professor of Philosophy*

Dolores Norton PHD (Bryn Mawr College) *Assistant Professor-elect of Social Work and Social Research*

John R. Olson PHD (Iowa State University) *Assistant Professor of Physics*

Jane M. Oppenheimer PHD (Yale University) *Class of 1897 Professor of Biology*[2]

John C. Oxtoby MA (University of California) *Professor of Mathematics*

Nicholas Patruno MA (Rutgers University) *Lecturer in Italian*

Eleanor K. Paucker PHD (University of Pennsylvania) *Assistant Professor of Spanish*

Ruth L. Pearce PHD (University of Pennsylvania) *Assistant Professor of Russian*

Emmy A. Pepitone PHD (University of Michigan) *Assistant Professor of Education and Child Development*

Kyle M. Phillips, Jr. PHD (Princeton University) *Associate Professor of Classical and Near Eastern Archaeology*[1]

Jeanne C. Pollock MSW (University of Pennsylvania School of Social Work) *Associate Professor of Social Work*

Judith R. Porter PHD (Harvard University) *Assistant Professor of Sociology*[1]

Jean A. Potter PHD (Yale University) *Associate Professor of Philosophy*

John R. Pruett PHD (Indiana University) *Professor of Physics*

C. Earl Ramsey PHD (University of Florida) *Assistant Professor of English*

[1] On leave, 1969-70.

[2] On leave, semester I, 1969-70.

William H. Reese PHD (University of Berlin) *Director of Orchestra*

Martin Rein PHD (Brandeis University) *Professor of Social Work and Social Research*[1]

Brunilde Sismondo Ridgway PHD (Bryn Mawr College) *Associate Professor of Classical and Near Eastern Archaeology*

William J. Roach PHD (University of Chicago) *Visiting Professor of Old French*

Caroline Robbins PHD (University of London) *Marjorie Walter Goodhart Professor of History*

Bernard Ross PH D (University of Michigan) *Professor of Social Work and Social Research*

Marc Howard Ross PHD (Northwestern University) *Assistant Professor of Political Science*[1]

J. H. M. Salmon MLITT (Cambridge University) *Professor-elect of History*

Stephen Salkever MA (University of Chicago) *Assistant Professor-elect of Political Science*

Sandra W. Scarr PHD (Harvard University) *Visiting Lecturer in Psychology*

Eugene V. Schneider PHD (Harvard University) *Professor of Sociology*

Christoph E. Schweitzer PHD (Yale University) *Professor of German*

Russell T. Scott PHD (Yale University) *Assistant Professor of Latin*

Alain Silvera PHD (Harvard University) *Associate Professor of History*

Robert A. Sinfield DIP. SOC. ADMIN. (London School of Economics) *Visiting Lecturer in Social Work and Social Research*

James E. Snyder PHD (Princeton University) *Associate Professor of History of Art*

Martin Avery Snyder PHD (New York University) *Assistant Professor of Mathematics*

Faye P. Soffen PHD (University of Pennsylvania) *Assistant Professor of Education and Child Development*

Arthur Colby Sprague PHD (Harvard University) *Professor Emeritus of English Literature*

Ruth O. Stallfort MS (Simmons College School of Social Work) *Lecturer in Social Work and Social Research*

K. Laurence Stapleton AB (Smith College) *Mary E. Garrett Alumnae Professor of English Literature*[2]

Isabel S. Stearns PHD (Bryn Mawr College) *Professor of Philosophy*

Larry Stein PHD (University of Iowa) *Visiting Professor of Psychology*

[1] On leave, 1969-70.
[2] On leave, semester II, 1969-70.

William E. Steslicke PHD (University of Michigan) *Lecturer in Political Science*

John David Summers MA (Yale University) *Lecturer in History of Art*

James R. Tanis THD (University of Utrecht) *Director of Libraries and Professor of History*

Roger Tauss MA (Northwestern University) *Lecturer in Political Science*

Lily Ross Taylor PHD (Bryn Mawr College) *Professor Emeritus of Latin*

Arnold W. Thackray PHD (Cambridge University) *Visiting Lecturer in the History of Chemistry*

Earl Thomas PHD (Yale University) *Assistant Professor of Psychology*

Enrique Tierno-Galván *D en FL* (University of Madrid) *Visiting Lecturer in Spanish*

Phyllis Turnbull *D en FL* (University of Madrid) *Assistant Professor of Spanish and Advisor to Foreign Students*

Myra L. Uhlfelder PHD (Bryn Mawr College) *Associate Professor of Latin*

Joseph Varimbi PHD (University of Pennsylvania) *Associate Professor of Chemistry*

William Vosburgh PHD (Yale University) *Associate Professor of Social Work and Social Research*[1]

Edward H. Watson PHD (Johns Hopkins University) *Professor of Geology*

George E. Weaver, Jr. MA (University of Pennsylvania) *Lecturer in Philosophy*

Roger Hewes Wells PHD (Harvard University) *Professor Emeritus of Political Science*

Martin Wenglinsky MA (University of California) *Lecturer in Social Work and Social Research*

Alice Whiting MSW (University of Michigan) *Lecturer in Social Work and Social Research*

Merilyn Woods PHD (Bryn Mawr College) *Lecturer in Social Work and Social Research*

Mary Katharine Woodworth PHD (Bryn Mawr College) *Professor Emeritus of English*

Dorothy Wyckoff PHD (Bryn Mawr College) *Professor Emeritus of Geology*

Matthew Yarczower PHD (University of Maryland) *Associate Professor of Psychology*

[1] On leave, semester II, 1969-70.

George L. Zimmerman PHD (University of Chicago) *Professor of Chemistry*

Greta Zybon DSW (Western Reserve University) *Associate Professor of Social Work and Social Research*

Health

Frieda W. Woodruff MD (University of Pennsylvania) *College Physician*

Anne Lee Delano MA (Columbia University) *Director of Physical Education*

John F. Howkins, MD (Columbia University, College of Physicians and Surgeons) *Consulting Psychiatrist*

Howard B. Smith MD (Jefferson Medical College) *Consulting Psychiatrist*

Officers of Administration

Carol Biba AB (University of Wisconsin) *Director of Public Information*

Marcella H. Congdon AB (University of North Carolina) *Director of the Office of Career Planning and Placement*

Paul W. Klug CPA BS (Temple University) *Comptroller and Business Manager of the College*

Edith H. McGrath *Assistant to the President*

Samuel J. McNamee BS (Temple University) *Assistant Comptroller*

Mary Patterson McPherson PHD (Bryn Mawr College) *Assistant Dean of the College*

Patricia Lynn Moody AB (Bryn Mawr College) *Assistant to the Director of Admissions*

Julie E. Painter AB (Bryn Mawr College) *Scholarship Officer and Assistant Dean of the College*

Martha Stokes Price AB (Bryn Mawr College) *Director of the Resources Committee*

Cynthia Sorrick Platt AB (Bryn Mawr College) *Recorder*

Patricia Onderdonk Pruett PHD (Bryn Mawr College) *Assistant Dean of the College*

Thomas N. Trucks BS (Villanova University) *Superintendent of Buildings and Grounds*

Phyllis Turnbull *D en FL* (University of Madrid) *Adviser to Foreign Students and Assistant Professor of Spanish*

Elizabeth G. Vermey MA (Wesleyan University) *Director of Admissions*

Sarah E. Wright, *Director of Halls*

Library

James R. Tanis THD (University of Utrecht) *Director of Libraries*

Elsa R. Lichtenberg MSLS (Drexel Institute) *Assistant in Cataloguing Department*

Dorothy V. McGeorge BSLS (Drexel Institute) *Order Librarian*

Catherine E. Pabst MSLS (Drexel Institute) *Assistant in the Order Department*

Gertrude Reed MSLS (Rutgers University) *Assistant in the Circulation Department*

Pamela G. Reilly MSLS (Drexel Institute) *Head of Circulation and Reference Department*

Pauline Anne Taffe MSLS (Villanova University) *Assistant in Cataloguing Department*

Cornelia A. Tucker MSLS (Louisiana State University) *Assistant in the Circulation Department*

Yildiz van Hulsteyn MSLS (Drexel Institute) MA (Bryn Mawr College) *Librarian West Wing*

Jane Walker BS (Simmons College) *Head of Cataloguing Department*

Ethel W. Whetstone A B L S (University of North Carolina) *Librarian, Departmental Libraries*

Child Study Institute

Rachel D. Cox PHD (University of Pennsylvania) *Director*

Eleanor Beatty MA (George Washington University) *Psychologist*

Gwendolyn A. Binegar MSS (Bryn Mawr College) *Caseworker*

Lelia Brodersen MA (Temple University) *Chief Psychologist*

Margaret Leslie Bullington MSS (Bryn Mawr College) *Part-time Social Caseworker*

Anne D. Emmons MS (University of Pennsylvania) *Remedial Reading Teacher*

Joel Goldstein MD (Jefferson Medical School) *Consulting Psychologist*

Constance Grant BS (University of Pennsylvania) *Remedial Reading Teacher*

Anita Grinnell MS (University of Pennsylvania) *Part-time Psychologist*

Virginia G. Keen MSW (University of Pennsylvania School of Social Work) *Social Caseworker*

Catherine Kurkowski MSW (University of Pennsylvania School of Social Work) *Social Caseworker*

Frederic J. Kwapien MD (Tufts University School of Medicine) *Consulting Psychiatrist*

Christine Patzau MSW (University of Pennsylvania School of Social Work) *Part-time Social Caseworker*

Myra E. Pottash MA (Bryn Mawr College) *Psychological Assistant*

Beth M. Riser MA (Bryn Mawr College) *Remedial Reading Teacher*

Beatrice Schneider MSS (Bryn Mawr College) *Part-time Social Caseworker*

Herman Staples MD (Hahnemann Medical College) *Consulting Psychiatrist*

Elsie Waelder MSW (Western Reserve University) *Chief Social Worker*

Isabel Westfried MA (Bryn Mawr College) *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield MS (Yale University) *Director*

Elva Pepper MA (Haverford College) *Teacher*

The Graduate Committee

President McBride *Chairman*
Dean Foster *Vice-chairman*
Mr Conner
Mr Dudden
Mr Goodale
Mr Guggenheim
Miss Hoyt
Mrs King
Mr Kline
Miss Oppenheimer
Mr James Snyder
Mr Vosburgh

The Graduate Scholarships Committee

Dean Foster *Chairman*
President McBride *ex-officio*
Miss Jones
Mr Mallory
Mrs Pollock

Index

	Pages
Academic Departments	3
Academic Schedule	4-5
Administration, Officers of	92
Admission, to the Graduate School	6
to Graduate Courses	7
American History	41
Anthropology	15-16
Application for Admission	6
Application for Financial Aid	7
Application for Residence	79
Archaeology, Classical and Near Eastern	22-24
Avignon, Summer Institute	11
Awards, Academic	70-76
Biology	17-18
Board of Directors	82
Committees of	83
Boyce Collection	8
Buildings and Grounds Committee	83
Calendar for the Academic Year	4-5
Canaday, Ward, Collection	8
Chemistry	19-21
Child Study Institute	27
Classical and Near Eastern Archaeology	22-24
Committees of Board of Directors	83
Comparative Philology and Linguistics	24
Computer Center	9
Cooperation, with Neighboring Institutions	10-11
Courses, Graduate	15-67
Curtis Collection	8
Degree Candidacy	7
Degree Requirements	12-14
Dillingham Collection	8
Directors, Board of	82
Committees of	83
Doctor of Philosophy	12-13
Duties of Fellows and Scholars	75
Economics	25-26
Education and Child Development	26-29
Ella Riegel Museum	6
Employment	78
English	29-31
Excavations	23
Exclusion from the College	69
Executive Committee	83
Expenses	69
Faculty	84-94
Fees	68-69
Fellowships	70-74
Finance Committee	83
Financial Aid, Application for	70-77
Foreign Students, Application	6-7
Financial Aid	7
Scholarships	75
French	32-33
Geology	34-35
German	36-37
Goldman Collection	8
Goodhart Mediaeval Library	8
Graduate Assistantships	75
Graduate Committee	94
Graduate Prize	76
Graduate Record Examinations	6
Graduate Residence Center	79
Graduate Scholarships Committee	94
Greek	38-39
Health	80-81
History	39-42
History and Philosophy of Science	42-43
History of Art	44-45
History of Religion	45
Infirmary	80
Insurance, Health	81
Italian	46
King Collection	8
Laboratories	9
Latin	46-48
Leave of Absence	68
Library	8
Library Committee	83
Loan Funds	77
Madrid, Summer Institute	11
Master of Arts	13-14
Master of Social Service	14
Mathematics	49-50
Mediaeval Studies	51-52
Music	52-53
Office of Career Planning and Placement	78
Officers	
Administration	92
Board of Directors	82

Index—*continued*

	Pages
Phebe Anna Thorne School	27
Philosophy	53-55
Physical Examination	81-82
Physics	56-58
Plan for Coordination in the Sciences	9, 19, 72
Political Science	59-60
Program of Study	10-11, 15-67
Psychology	60-62
Rare Book Room	8
Registration	7
Riegel Museum	8
Religious Life Committee	83
Requirements, for Admission	6
for Degrees	12-14
Residence Center	79
Resources for Graduate Work	8-9
Russian	62-63
Scholarships, Graduate	73-75
Science Center	9
Sciences, Plan for Coordination in	9, 19, 72
Seminars and Courses	15-67
Social Work and Social Research	63-65
Sociology	65-66
Spanish	66-67
Staff	84-94
Student Employment	78
Summer Work	11
Trustees	82
Tuition	68
Tuition Grants	76
Tuition Scholarships	74
University of Pennsylvania, Reciprocal Plan	10
U. S. Army Map Collection	8
Vaccination, Certificate of	80
Vaux Collection	8



BRYN MAWR COLLEGE

BRYN MAWR, PENNSYLVANIA

1969

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

Bryn Mawr College Calendar

BRYN MAWR

Undergraduate Courses

1969-70

Bryn Mawr College Calendar

Undergraduate Courses

Issue for the Session of 1969-70

August 1969, Volume LXII, Number 3

Visitors to the College are welcome, and when the College is in session student guides are available to show visitors the campus. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

Correspondence

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010. Telephone: 215 LA 5-1000.

Correspondence regarding the following subjects should be addressed to:

The President
General interests of the College

The Dean
Academic work, personal welfare and health of the students

The Director of Admissions
Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School
Admission to the Graduate School and graduate scholarships

The Director of Halls
Rooms in the halls of residence

The Comptroller
Payment of bills

The Director of Office of Career Planning and Placement
Recommendations for positions and inquiries regarding students' self-help

The Alumnae Association
Regional scholarships and loan fund

Bryn Mawr College Calendar. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

Second Class Postage paid at Bryn Mawr, Pa.

Contents

	PAGE
Academic Schedule	4
The Trustees, Directors and Committees of the Board	6
The Faculty and Staff	8
Introduction	20
Admission	25
To the Freshman Class	25
Of Transfer and of Foreign Students	28
Readmission	29
Academic Facilities and Residence	31
Tuition and Residence Fees	37
General Information	39
Student Advising	39
Academic Standards and Regulations	39
Health	40
Curriculum	43
Premedical Preparation	47
Preparation to Teach	48
Coordination in the Sciences	48
Credit for Creative Work in Art and Music	49
Black Courses	49
Language Houses	50
Summer Institutes Abroad	50
The Junior Year Abroad	51
Courses of Study 1969/1970	53
Departmental Courses	54
Interdepartmental Courses	137
Physical Education	139
Financial Aid	141
Scholarship Funds	143
Prizes and Academic Awards	158
Scholarships for Medical Study	162
Loan Funds	163
Employment and Vocational Counseling	166
Alumnae Representatives	167
Index	175

Academic Schedule 1969-70

1969	*First Semester*
September 10.	Halls of residence open to entering class at 8 a.m. Registration of entering undergraduate students.
September 13.	Halls of residence open to returning undergraduates at 8 p.m.
September 14.	Enrolment of returning undergraduate students.
September 15.	Work of the 85th academic year begins at 9 a.m.
September 17.	Registration period for graduate students ends.
October 4.	French examinations for undergraduates.
October 18.	German examinations for undergraduates. Italian, Spanish, Russian and Statistics examinations for graduate students.
October 25.	Italian and Spanish examinations for undergraduates. French examinations for graduate students.
November 1.	Greek, Latin and Russian examinations for undergraduates. German examinations for graduate students.
November 5.	Hygiene examination at 8:30 p.m.
November 8.	Mathematics examinations for undergraduates.
November 26.	Thanksgiving Holiday begins after last class.
December 1.	Thanksgiving Holiday ends at 9 a.m.
December 19.	Christmas vacation begins at 12:45 p.m. Last day of Lectures.
1970	
January 5.	Christmas vacation ends at 9 a.m. Review Period begins.
January 7.	Review Period ends.
January 8.	College examinations begin.

January 9.	Final date for filing completed applications for Semester II to the Graduate School.
January 10.	French, German, Greek, Latin and Russian examinations for Seniors Conditioned.
January 16.	College examinations end.
January 17.	Intersession begins.
January 21.	Registration period for graduate students begins.
January 25.	Intersession ends.

Second Semester

January 26.	Work of the Second Semester begins at 9 a.m.
January 28.	Registration period for graduate students ends.
February 28.	Italian, Russian, Spanish and Statistics examinations for graduate students.
March 7.	French examinations for graduate students.
March 14.	Mathematics examinations for undergraduates. German examinations for graduate students.
March 20.	Spring vacation begins after last class.
March 30.	Spring vacation ends at 9 a.m. Deferred examinations begin.
April 4.	Deferred examinations end. German examinations for undergraduates.
April 12.	Greek, Latin and Russian examinations for undergraduates.
April 17.	French examinations for undergraduates.
April 24-26.	Geology Field Trip.
May 2.	Italian and Spanish examinations for undergraduates.
May 8.	Last day of Lectures.
May 9-11.	Review Period.
May 12-21.	College examinations.
May 25.	Conferring of degrees and close of 85th academic year.
May 30.	Alumnae Day.

The Trustees of Bryn Mawr College

Edmund B. Spaeth, Jr., *President*

Millicent Carey McIntosh[1]
Vice-President

John E. Forsythe
Treasurer

J. Tyson Stokes
Assistant Treasurer

Elizabeth Gray Vining[2]
Vice-President

Millicent Carey McIntosh[1]
Secretary

Katharine Budd Whelihan†
Assistant Secretary

Trustees

Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes[3]
Edmund B. Spaeth, Jr.
Thomas B. Harvey, Jr.

The Board of Directors

Edmund B. Spaeth, Jr., *Chairman*

Eleanor Little Aldrich[4]
Vice-Chairman

John E. Forsythe
Treasurer

J. Tyson Stokes
Assistant Treasurer

Elizabeth Gray Vining[2]
Vice-Chairman

Millicent Carey McIntosh[1]
Secretary

Katharine Budd Whelihan†
Assistant Secretary

Directors

Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes[3]
Edmund B. Spaeth, Jr.
Thomas B. Harvey, Jr.
Katharine Elizabeth McBride
Eleanor Little Aldrich[4]
J. Tyson Stokes
Phyllis Goodhart Gordan[5]
Alice Palache Jones[6]
Agnes Clement Ingersoll[7]
Lewis N. Lukens
Anne Woodward Pusey[8]
Alumnae Director, 1964-69
Elizabeth Pearson Horrocks[9]
Alumnae Director, 1965-70
Margaret Tyler Paul[10]
Alumnae Director, 1966-71
Sue Mead Kaiser[11]
Alumnae Director, 1967-72
Emily Townsend Vermeule[12]
Alumnae Director, 1968-73
Edith Harris West[13]
Alumnae Director, 1969-74
Barbara Cooley McNamee *by invitation*[14]
President of the Alumnae Association

†*Deceased*

Standing Committees of the Board of Directors for 1969

Executive Committee

Judge Spaeth, *Chairman*
Mrs. Aldrich
Mr. Cadbury
Mr. Forsythe
Mrs. Gordan
Miss McBride
Mrs. McIntosh
Mrs. Pusey
Mr. Rhoads
Mr. Stokes

Buildings and Grounds Committee

Mr. Rhoads, *Chairman*
Mrs. Gordan, *Vice-Chairman*
Mrs. Horrocks
Mrs. Ingersoll
Mrs. Kaiser
Miss McBride
Mrs. Paul
Mr. Price

Finance Committee

Mr. Forsythe, *Chairman*
Mrs. Jones
Mr. Price
Mr. Stokes
Mr. Terrell
Mr. Wood

Library Committee

Mrs. Gordan, *Chairman*
Mrs. Aldrich
Miss McBride
Mrs. Pusey
Mrs. Vermeule
Mrs. Vining

Religious Life Committee

Miss McBride, *Chairman*
Mr. Cadbury
Mrs. Ingersoll
Mrs. Pusey
Dr. Rhoads
Mrs. Vining

1. Mrs. Rustin McIntosh
2. Mrs. Morgan Vining
3. Mrs. Francis J. Stokes
4. Mrs. Talbot Aldrich
5. Mrs. John D. Gordan
6. Mrs. Russell K. Jones
7. Mrs. C. Jared Ingersoll
8. Mrs. Nathan M. Pusey
9. Mrs. Thomas S. Horrocks
10. Mrs. Samuel H. Paul
11. Mrs. Edgar F. Kaiser
12. Mrs. Cornelius C. Vermeule III
13. Mrs. William Nelson West
14. Mrs. Daniel V. McNamee, Jr.

Bryn Mawr College Faculty and Staff

For the Academic Year, 1969-70

Katharine Elizabeth McBride, PH.D. (Bryn Mawr College), LL.D., L.H.D., SC.D., *President of the College*

Dorothy Nepper Marshall, PH.D. (Bryn Mawr College), *Dean of the College*

Elizabeth Read Foster, PH.D. (Yale University), *Dean of the Graduate School*

Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*

James R. Tanis, TH.D. (University of Utrecht), *Director of Libraries*

Elizabeth G. Vermey, M.A. (Wesleyan University), *Director of Admissions*

Frieda W. Woodruff, M.D. (University of Pennsylvania), *College Physician*

Emeriti

Janet Margaret Agnew, B.L.S. (McGill University), M.A. (University of Manitoba), *Librarian Emeritus*

Horace Alwyne, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music*

Eleanor A. Bliss, SC.D. (Johns Hopkins University), *Dean Emeritus*

Rhys Carpenter, PH.D. (Columbia University), LITT.D., *Professor Emeritus of Classical Archaeology*

Grace Mead Andrus de Laguna, PH.D. (Cornell University), *Professor Emeritus of Philosophy*

Max Diez, PH.D. (University of Texas), *Professor Emeritus of German Literature*

Charles Ghequiere Fenwick, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*

Grace Frank, A.B. (University of Chicago), *Professor Emeritus of Old French*

Mary Summerfield Gardiner, PH.D. (Bryn Mawr College), *Professor Emeritus of Biology*

Myra Richards Jessen, PH.D. (Bryn Mawr College), *Professor Emeritus of German*

Marguerite Lehr, PH.D. (Bryn Mawr College), *Professor Emeritus of Mathematics*

Angeline Helen Lograsso, PH.D. (Radcliffe College), *Professor Emeritus of Italian*

Helen Taft Manning, PH.D. (Yale University), *Professor Emeritus of History*

Cornelia Lynde Meigs, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*

Fritz Mezger, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*

Arthur Colby Sprague, PH.D. (Harvard University), *Professor Emeritus of English Literature*

Lily Ross Taylor, PH.D. (Bryn Mawr College), *Professor Emeritus of Latin*

Roger Hewes Wells, PH.D. (Harvard University), *Professor Emeritus of Political Science*

Mary Katharine Woodworth, PH.D. (Bryn Mawr College), *Professor Emeritus of English*

Dorothy Wyckoff, PH.D. (Bryn Mawr College), *Professor Emeritus of Geology*

Professors

L. Joe Berry, PH.D. (University of Texas), *Professor of Biology and Secretary of the Faculty*

Ernst Berliner, PH.D. (Harvard University), *W. Alton Jones Professor of Chemistry*

Robert L. Conner, PH.D. (Indiana University), *Professor of Biology*

Rachel Dunaway Cox, PH.D. (University of Pennsylvania), *Professor of Education and Child Development*

Frederic Cunningham, Jr., PH.D. (Harvard University), *Professor of Mathematics*

Frances de Graaff, PH.D. (University of Leyden), *Professor of Russian*

Frederica de Laguna, PH.D. (Columbia University), *Professor of Anthropology*[2]

Lincoln Dryden, PH.D. (Johns Hopkins University), *Professor of Geology*

Arthur P. Dudden, PH.D. (University of Michigan), *Professor of History*

José María Ferrater Mora, *Licenciado en Filosofia* (University of Barcelona), *Professor of Philosophy*

Elizabeth Read Foster, PH.D. (Yale University), *Dean of the Graduate School and Professor of History*

Richard C. Gonzalez, PH.D. (University of Maryland), *Professor of Psychology*

Joaquín González Muela, *D.en F.L.* (University of Madrid), *Professor of Spanish*

Robert L. Goodale, B. MUS. (Yale University), A.A.G.O., *Alice Carter Dickerman Professor of Music*

Michel Guggenheim, PH.D. (Yale University), *Professor of French*

Rosalie C. Hoyt, PH.D. (Bryn Mawr College), *Professor of Physics*

Joshua C. Hubbard, PH.D. (Harvard University), *Professor of Economics*

Agi Jambor, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*[3]

N.B. The notations throughout this section refer to the following footnotes:

1. On leave of absence, 1969-70.
2. On sabbatical leave, 1969-70.
3. On sabbatical leave, semester I, 1969-70.
4. On leave of absence, semester I, 1969-70.
5. On sabbatical leave, semester II, 1969-70.

Howard C. Kee, PH.D. (Yale University), *Rufus Jones Professor of History of Religion*

George L. Kline, PH.D. (Columbia University), *Professor of Philosophy*

Mabel L. Lang, PH.D. (Bryn Mawr College), *Professor of Greek*

Richmond Lattimore, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*

Gertrude C. K. Leighton, A.B. (Bryn Mawr College), LL.B. (Yale University), *Professor of Political Science*

Philip Lichtenberg, PH.D. (Western Reserve University), *Professor of Social Research*

Katherine D. K. Lower, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*

Mario Maurin, PH.D. (Yale University), *Professor of French*

Machteld Mellink, PH.D. (University of Utrecht), *Professor of Classical and Near Eastern Archaeology*

Agnes Kirsopp Michels, PH.D. (Bryn Mawr College), *Professor of Latin*

Walter C. Michels, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*

Charles Mitchell, M.A., B.LITT. (Oxford University), *Professor of History of Art*

Milton Charles Nahm, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

Jane M. Oppenheimer, PH.D. (Yale University), *Class of 1897 Professor of Biology*[4]

John C. Oxtoby, M.A. (University of California), *Professor of Mathematics*

John R. Pruett, PH.D. (Indiana University), *Professor of Physics*

Martin Rein, PH.D. (Brandeis University), *Professor of Social Work and Social Research*

William J. Roach, PH.D. (University of Chicago), *Visiting Professor of Old French*

Caroline Robbins, PH.D. (University of London), *Marjorie Walter Goodhart Professor of History*

Bernard Ross, PH.D. (University of Michigan), *Professor of Social Work and Social Research*

Eugene V. Schneider, PH.D. (Harvard University), *Professor of Sociology*

Christoph E. Schweitzer, PH.D. (Yale University), *Professor of German*

K. Laurence Stapleton, A.B. (Smith College), *Mary E. Garrett Alumnae Professor of English Literature*[1]

Isabel Scribner Stearns, PH.D. (Bryn Mawr College), *Professor of Philosophy*

Larry Stein, PH.D. (University of Iowa), *Visiting Professor of Psychology*

Edward H. Watson, PH.D. (Johns Hopkins University), *Professor of Geology*

George L. Zimmerman, PH.D. (University of Chicago), *Professor of Chemistry*

Melville T. Kennedy, Jr., PH.D. (Harvard University), *Associate Professor and Professor-elect of Political Science*[1]

Frank B. Mallory, PH.D. (California Institute of Technology), *Associate Professor and Professor-elect of Chemistry*

John H. M. Salmon, M.LITT. (Cambridge University), *Professor-elect of History*

Associate Professors

Jay Martin Anderson, PH.D. (Harvard University), *Associate Professor of Chemistry*

Hans Bänziger, PH.D. (University of Zürich), *Associate Professor of German*

Robert B. Burlin, PH.D. (Yale University), *Associate Professor of English*

Robert H. Butman, M.A. (University of North Carolina), *Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford College*[5]

Robert S. Davidon, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*

Mary Maples Dunn, PH.D. (Bryn Mawr College), *Associate Professor of History*[2]

Jean D. Haring, D.S.W. (Western Reserve University), *Associate Professor of Social Work and Social Research*

Thomas Jackson, PH.D. (Yale University), *Associate Professor of English*

Willard F. King, PH.D. (Brown University), *Associate Professor of Spanish*

Jane C. Kronick, PH.D. (Yale University), *Associate Professor of Social Work and Social Research*

Ethel W. Maw, PH.D. (University of Pennsylvania), *Associate Professor of Education and Child Development*

Susan E. Maxfield, M.S. (Yale University), *Associate Professor of Education and Child Development and Director of the Phebe Anna Thorne School*

Kyle M. Phillips, Jr., PH.D. (Princeton University), *Associate Professor of Classical and Near Eastern Archaeology*[2]

Jeanne C. Pollock, M.S.W. (University of Pennsylvania School of Social Work), *Associate Professor of Social Work*

Jean A. Potter, PH.D. (Yale University), *Associate Professor of Philosophy*

Brunilde Sismondo Ridgway, PH.D. (Bryn Mawr College), *Associate Professor of Classical and Near Eastern Archaeology*

Alain Silvera, PH.D. (Harvard University), *Associate Professor of History*

James E. Snyder, PH.D. (Princeton University), *Associate Professor of History of Art*

Myra L. Uhlfelder, PH.D. (Bryn Mawr College), *Associate Professor of Latin*

Joseph Varimbi, PH.D. (University of Pennsylvania), *Associate Professor of Chemistry*

William W. Vosburgh, PH.D. (Yale University), *Associate Professor of Social Work and Social Research*

Matthew Yarczower, PH.D. (University of Maryland), *Associate Professor of Psychology*

Greta Zybon, D.S.W. (Western Reserve University), *Associate Professor of Social Work and Social Research*

Ethan D. Bolker, PH.D. (Harvard University), *Assistant Professor and Associate Professor-elect of Mathematics*

Charles M. Brand, PH.D. (Harvard University), *Assistant Professor and Associate Professor-elect of History*

Merle Broberg, M.S.S. (Bryn Mawr College), *Assistant Professor and Associate Professor-elect of Social Work and Social Research*

Isabelle Cazeaux, PH.D. (Columbia University), *Assistant Professor and Associate Professor-elect of Music*

Gérard Defaux, Agrégé de Lettres (Sorbonne), *Associate Professor-elect of French*

Richard B. DuBoff, PH.D. (University of Pennsylvania), *Assistant Professor and Associate Professor-elect of Economics*

Charles E. Frye, PH.D. (Princeton University), *Assistant Professor and Associate Professor-elect of Political Science*

Jane C. Goodale, PH.D. (University of Pennsylvania), *Assistant Professor and Associate Professor-elect of Anthropology*

Barbara M. Lane, PH.D. (Harvard University), *Assistant Professor and Associate Professor-elect of History*[5]

Assistant Professors

Audrey Barnett, PH.D. (Indiana University), *Assistant Professor of Biology*[1]

Maria Luisa B. Crawford, PH.D. (University of California), *Assistant Professor of Geology*

William A. Crawford, PH.D. (University of California), *Assistant Professor of Geology*

Charles A. Culotta, PH.D. (University of Wisconsin), *Assistant Professor of the History of Biology, on joint appointment with the University of Pennsylvania*

Roger W. Cummins, PH.D. (University of Minnesota), *Assistant Professor of English*

Gwenn Davis, PH.D. (University of Michigan), *Assistant Professor of English*

Charles G. Dempsey, PH.D. (Princeton University), *Assistant Professor of History of Art*[1]

Nancy C. Dorian, PH.D. (University of Michigan), *Assistant Professor of German*

Ronald Feinstein, M.S.W. (University of Illinois), *Assistant Professor of Social Work and Social Research*

M. Pauline Jones, PH.D. (Bryn Mawr College), *Assistant Professor of French*

J. Duncan Keppie, PH.D. (University of Glasgow), *Assistant Professor of Geology*

Catherine Lafarge, PH.D. (Yale University), *Assistant Professor of French*

Peter J. Leach, M.F.A. (Yale University), *Assistant Professor of English*

Irene Nagurski, PH.D. (Columbia University), *Assistant Professor of Russian*
John R. Olson, PH.D. (Iowa State University), *Assistant Professor of Physics*
Eleanor K. Paucker, PH.D. (University of Pennsylvania), *Assistant Professor of Spanish*
Ruth L. Pearce, PH.D. (University of Pennsylvania), *Assistant Professor of Russian*
Emmy A. Pepitone, PH.D. (University of Michigan), *Assistant Professor of Education and Child Development*
Judith R. Porter, PH.D. (Harvard University), *Assistant Professor of Sociology*[1]
Earl Ramsey, PH.D. (University of Florida), *Assistant Professor of English*
Marc H. Ross, PH.D. (Northwestern University), *Assistant Professor of Political Science*[1]
Russell T. Scott, PH.D. (Yale University), *Assistant Professor of Latin*
Martin Avery Snyder, PH.D. (New York University), *Assistant Professor of Mathematics*
Faye P. Soffen, PH.D. (University of Pennsylvania), *Assistant Professor of Education and Child Development*
Arnold W. Thackray, PH.D. (Cambridge University), *Assistant Professor of the History of Chemistry, on joint appointment with the University of Pennsylvania*
Earl Thomas, PH.D. (Yale University), *Assistant Professor of Psychology*
Phyllis Turnbull, *D.en F.L.* (University of Madrid), *Assistant Professor of Spanish and Adviser to Foreign Students*

Anthony R. Kaney, PH.D. (University of Illinois), *Assistant Professor-elect of Biology*
Arthur S. Marks, PH.D. (University of London), *Lecturer and Assistant Professor-elect of History of Art*
Dolores G. Norton, PH.D. (Bryn Mawr College), *Instructor and Assistant Professor-elect of Social Work and Social Research*
Stephen Salkever, M.A. (University of Chicago), *Assistant Professor-elect of Political Science*

Lecturers

Joseph Airo-Farulla, M.A. (University of Washington), *Lecturer in History*
Herbert Aptheker, PH.D. (Columbia University), *Visiting Lecturer in History*
Erika Rossman Behrend, M.A. (University of Pennsylvania), *Part-time Lecturer in Psychology*
Ivy Bennett, M.S.W. (Smith College), *Part-time Lecturer in Social Work and Social Research*
Frances Bondhus Berliner, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
Sandra M. Berwind, PH.D. (Bryn Mawr College), *Part-time Lecturer in English*
Stanley Clawar, A.B. (Temple University), *Part-time Lecturer in Sociology*

John Evander Coleman, PH.D. (University of Cincinnati), *Lecturer in Classical and Near Eastern Archaeology*

John H. Davison, PH.D. (University of Rochester), *Visiting Lecturer in Music*

Richard K. Fenn, TH.M. (Princeton Theological Seminary), *Lecturer in Sociology*

A. Irving Hallowell, PH.D. (University of Pennsylvania), *Visiting Lecturer in Anthropology*

Nancy Howe, M.A. (Johns Hopkins University), *Lecturer in Italian*

Helen Manning Hunter, PH.D. (Radcliffe College), *Visiting Lecturer in Economics*

Clifton R. Jones, PH.D. (State University of Iowa), *Visiting Lecturer in Sociology*

Philip Kilbride, M.A. (Pennsylvania State University), *Lecturer in Anthropology*

June Quint Koch, PH.D. (Columbia University), *Lecturer in English*

Charles Kolb, A.B. (Pennsylvania State University), *Lecturer in Anthropology*

Joseph E. Kramer, PH.D. (Princeton University), *Lecturer in English*

Rena Kreutz, Staatsexamen (University of Bonn), *Lecturer in German*

Robert E. Lana, PH.D. (University of Maryland), *Visiting Lecturer in Psychology*

Adrienne R. Lockhart, M.A. (University of Sydney), *Lecturer in English*

Margaret S. Maurin, PH.D. (Bryn Mawr College), *Part-time Lecturer in French*

Jane R. McConnell, PH.D. (Bryn Mawr College), *Part-time Lecturer in Biology*

Mary Patterson McPherson, PH.D. (Bryn Mawr College), *Part-time Lecturer in Philosophy*

Dolores E. Melching, M.A. (University of Chicago), *Part-time Lecturer in Social Work and Social Research*

Nicholas Patruno, M.A. (Rutgers University), *Lecturer in Italian*

Bryant Rollins, A.B. (Northeastern University), *Visiting Lecturer in Political Science*

Sandra W. Scarr, PH.D. (Harvard University), *Visiting Lecturer in Psychology*

Robert A. Sinfield, B.A. (Oxford University), *Visiting Lecturer in Social Work and Social Research*

Ruth O. Stallfort, M.S. (Simmons College School of Social Work), *Part-time Lecturer in Social Work and Social Research*

William E. Steslicke, PH.D. (University of Michigan), *Lecturer in Political Science*

John David Summers, M.A. (Yale University), *Lecturer in History of Art*

Roger Tauss, M.A. (Northwestern University), *Lecturer in Political Science*

Enrique D. Tierno-Galván, *D. en F.L.* (University of Madrid), *Visiting Lecturer in Spanish*

Susan Wachter, M.A. (Radcliffe College), *Visiting Lecturer in Economics*

George E. Weaver, Jr., M.A. (University of Pennsylvania), *Lecturer in Philosophy*

Martin Wenglinsky, M.A. (University of California), *Lecturer in Sociology*

Alice Whiting, M.S.W. (University of Michigan), *Lecturer in Social Work and Social Research*
Merilyn Woods, PH.D. (Bryn Mawr College), *Lecturer in Social Work and Social Research*

Instructors

Adele F. Berlin, A.B. (University of Pennsylvania), *Instructor in Classical and Near Eastern Archaeology*
Gregory W. Dickerson, M.A. (Princeton University), *Instructor in Greek and Latin*
Ramona T. Livingston, A.B. (William Jewell College), *Instructor in English*
Frederick Schulze, M.A. (Columbia University), *Instructor in Russian*
Helen Segall, B.S. (Simmons College), *Instructor in Russian*

Claudia F. Bailey, M.A. (Oberlin College), *Instructor-elect in Biology*
Sandra I. Kohler, A.B. (Mount Holyoke College), *Instructor-elect in English*
Margaret W. Masson, M.A. (University of Oregon), *Instructor-elect in History*
Judith H. McFadden, A.B. (Indiana University), *Instructor-elect in French, semester II*
Susan Schotz, A.B. (Carleton College), *Instructor-elect in French, semester I*

Carol W. Carpenter, M.A. (University of Pennsylvania), *Curator of Slides and Photographs*
Fritz Janschka, *Akademischer Maler* (Akademie der Bildenden Kunste), *Artist in Residence*
William H. Reese, PH.D. (University of Berlin), *Director of Orchestra*

Assistants

Donna Amenta, A.B. (Wheaton College), *Assistant in Chemistry*
Mary B. Baker, A.B. (Temple University), *Assistant in Chemistry*
Karen Berberian, A.B. (Pembroke College), *Assistant in Education*
Pieter Biesboer, *Hist. Art. Cand.* (University of Amsterdam), *Assistant in History of Art*
Henry Beitscher, A.B. (St. Joseph's College), *Assistant in Philosophy*
Anne Beuf, *Assistant in Sociology*
Margaret L. Cool, A.B. (Bryn Mawr College), *Assistant in Archaeology*
Lynne Douglas, A.B. (Carleton University), *Assistant in Psychology*
Robert B. Dutton, A.B. (University of Victoria), *Assistant in French*
Robert J. Ferguson, B.S. (Western Illinois University), *Assistant in Chemistry*
Denise Gervase, A.B. (Chestnut Hill College), *Assistant in Biology*
Kathryn Joan Gogolin, A.B. (Wilson College), *Assistant in Biology*
Myrl Hermann, M.A. (Bryn Mawr College), *Assistant in Music*

N.B. Assistants in general are on part-time appointment.

Hema Kapadia, A.B. (University of Bombay), *Assistant in Education*
Donna Lewis, A.B. (Plattsburgh College), *Assistant in Psychology*
Patricia Marshall, A.B. (College of Idaho), *Assistant in Sociology*
Yasuko Muramatsu, M.A. (Bryn Mawr College), *Assistant in Economics*
Sharon Murnane, A.B. (University of South Dakota), *Assistant in Biology*
Lynn Penn, A.B. (University of Pennsylvania), *Assistant in Chemistry*
Frank Peterson, A.B. (Rutgers University), *Assistant in Psychology*
Alan D. Rosen, M.A. (Bryn Mawr College), *Assistant in English*
Earl A. Shapiro, M.S. (Pennsylvania State University), *Assistant in Geology*
Dian Sheldon, M.A. (Bryn Mawr College), *Assistant in Archaeology*
Anne Turley, A.B. (San Francisco State College), *Assistant in Philosophy*
Mary Emma Wagner, M.A. (Bryn Mawr College), *Assistant in Geology*

Library

James R. Tanis, TH.D. (University of Utrecht), *Director of Libraries*
Elsa R. Lichtenberg, M.S.L.S. (Drexel Institute), *Assistant in Cataloguing Department*
Dorothy V. McGeorge, B.S.L.S. (Drexel Institute), *Order Librarian*
Catharine E. Pabst, M.S.L.S. (Drexel Institute), *Assistant in the Order Department*
Gertrude Reed, M.S.L.S. (Rutgers University), *Assistant in Circulation Department*
Pamela G. Reilly, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*
Pauline Anne Taffe, M.S.L.S. (Villanova University), *Assistant in Cataloguing Department*
Cornelia A. Tucker, M.S.L.S. (Louisiana State University), *Assistant in the Circulation Department*
Yildiz van Hulsteyn, M.S.L.S. (Drexel Institute), M.S. (Bryn Mawr College), *Librarian, West Wing*
Jane Walker, B.S. (Simmons College), *Head of Cataloguing Department*
Ethel W. Whetstone, A.B.L.S. (University of North Carolina), *Librarian, Departmental Libraries*

Health

Frieda W. Woodruff, M.D. (University of Pennsylvania), *College Physician*
Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*
John F. Howkins, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*
Howard B. Smith, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

Physical Education

Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*
Sandra Diane Brugger, B.S. (Boston Bouve College of Northeastern University), *Instructor in Physical Education*
Jan Eklund Fisher, M.ED. (University of Minnesota), *Instructor in Physical Education*
Mary L. O'Toole, B.S. (University of Massachusetts), *Instructor in Physical Education*
Janet A. Yeager, *Instructor in Physical Education*

Officers of Administration

Carol Biba, A.B. (University of Wisconsin), *Director of Public Information*
Marcella H. Congdon, A.B. (University of North Carolina), *Director of the Office of Career Planning and Placement*
Paul W. Klug, C.P.A., B.S. (Temple University), *Comptroller and Business Manager of the College*
Edith H. McGrath, *Assistant to the President*
Samuel J. McNamee, B.S. (Temple University), *Assistant Comptroller*
Mary Patterson McPherson, PH.D. (Bryn Mawr College), *Assistant Dean of the College*
Patricia Lynn Moody, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*
Julie E. Painter, A.B. (Bryn Mawr College), *Scholarship Officer and Assistant Dean of the College*
Cynthia Sorrick Platt, A.B. (Bryn Mawr College), *Recorder*
Martha Stokes Price, A.B. (Bryn Mawr College), *Director of Resources Committee*
Patricia Onderdonk Pruett, PH.D. (Bryn Mawr College), *Assistant Dean of the College*
Thomas N. Trucks, B.S. (Villanova University), *Superintendent of Buildings and Grounds*
Elizabeth G. Vermey, M.A. (Wesleyan University), *Director of Admissions*
Sarah E. Wright, *Director of Halls*

Foreign Students

Phyllis Turnbull, *D.en F.L.* (University of Madrid), *Assistant Professor of Spanish and Adviser to Foreign Students*

Halls of Residence

Karen French, B.A. (College of Notre Dame of Maryland), *Warden-elect of Pembroke East*
Eleanor J. Hedley, M.A. (Bryn Mawr College), *Warden-elect of Erdman*
Nancy Levine, B.A. (Carleton College), *Warden-elect of Rockefeller*
Martha Malo, *Licenciada* (University de Cuenca), *Warden-elect of Spanish House*
Marion Masiuk, M.A. (Bryn Mawr College), *Warden of Denbigh*
Judith McFadden, A.B. (Indiana University), *Warden of Rhoads*
Elizabeth Medland, A.B. (Keuka College), *Warden-elect of Pembroke West*
Candace B. Pert, *Warden of Radnor*
Harry L. Taplin, B.A. (St. Olaf College), *Senior Resident of the Graduate Center*
Eleanor Wood, B.A. (New York University), *Warden-elect of Merion*

Child Study Institute

Rachel Dunaway Cox, PH.D. (University of Pennsylvania), *Director*
Eleanor Beatty, M.A. (George Washington University), *Psychologist*
Lelia Broderson, M.A. (Temple University), *Chief Psychologist*
Gwendolyn A. Binegar, M.S.S. (Bryn Mawr College), *Caseworker*
Margaret Leslie Bullington, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Anne D. Emmons, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
Joel Goldstein, M.D. (Jefferson Medical School), *Consulting Psychologist*
Constance Grant, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
Anita Grinnell, M.S. (University of Pennsylvania), *Part-time Psychologist*
Virginia G. Keen, M.S.W. (University of Pennsylvania School of Social Work), *Social Caseworker*
Catherine Kurkowski, M.S.W. (University of Pennsylvania School of Social Work), *Social Caseworker*
Frederic J. Kwapien, M.D. (Tufts University School of Medicine), *Consulting Psychiatrist*
Christine Patzau, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*
Myra E. Pottash, M.A. (Bryn Mawr College), *Psychological Assistant*
Beth M. Riser, M.A. (Bryn Mawr College), *Remedial Reading Teacher*
Beatrice Schneider, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Herman Staples, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
Elsie Waelder, M.S.W. (Western Reserve University), *Chief Social Worker*
Isabel Westfried, M.A. (Bryn Mawr College), *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield, M.S. (Yale University), *Director*
Elva Pepper, M.A. (Haverford College), *Teacher*
Karen Berberian, A.B. (Pembroke College), *Assistant Teacher*
Hema Kapadia, A.B. (St. Xavier's College), *Assistant Teacher*

Introduction

Bryn Mawr effectively combines a small undergraduate college with a graduate school. In both of these the study of the liberal arts and sciences is pursued with members of the faculty who normally teach on both levels. They find that the teaching of undergraduates and the direction of graduate student research complement each other, so that the stimulation of investigation in the various fields of gradute study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so narrow that it may not profit from a breadth of perception.

Bryn Mawr College is convinced that intellectual discipline and enrichment provide a sound foundation for living. It believes in the rights of the individual and thinks of the college community as a proving ground for the freedom of individuals to think and act as intelligent and responsible members of a democratic society.

In these beliefs Bryn Mawr has preserved the purpose and much of the tradition of its founders, a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

History of the College

This concern about the opportunity for women to study at the university level was felt strongly by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college with undergraduate instruction for the A.B. and graduate instruction for the M.A. and PH.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow

freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a physician and one of the trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 96 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research.

The College as Community

Believing that a small college provides the most favorable opportunity for the students to participate in their own education, Bryn Mawr limits the number of undergraduates to approximately eight hundred. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each. Students may take courses at the other colleges, with credit and with-

out additional fees. All three colleges share in some facilities like the new computer center and in various curricular and extra-curricular activities, but geographical proximity makes possible more regular and closer cooperation between Bryn Mawr and Haverford, which are only a mile apart. The calendars for the year are coordinated so that vacations and examination periods coincide. Collections in the two libraries are cross-listed, and students may study in either library.

The cooperation between Bryn Mawr and Haverford naturally extends beyond the classroom. Various student organizations on the two campuses work closely together both in matters concerned with student government and in the whole range of activities. For the first time, in 1969-70, cooperation will be extended to living arrangements with one residence hall on each campus assigned to students of both colleges.

Bryn Mawr itself sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of social and cultural interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop has facilities for experimental theater work; the Arnecliffe Studio is for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity, and student representatives join with members of the faculty and administration in making and carrying out plans for the college community as a whole. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association

legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many special interest clubs, open to all students; it serves as the liaison between students and college officers, faculty and alumnae. The Undergraduate Association has most recently been instrumental in perfecting a system of meal exchanges with Haverford and extending the daily shuttle bus service which the two colleges provide.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussions on religious subjects, to plan services for worship and to take responsibility for giving students an opportunity to pursue and extend their religious interests.

Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs offers possibilities for political action and political education, sponsoring speakers, organizing discussions and providing outlets for active participation in contemporary political issues. Alliance is an "umbrella organization" serving politically-oriented interest groups on campus. The Bryn Mawr League concerns itself with problems and projects of social welfare and various branches of social service to the community at large; tutoring and volunteer work with children and in hospitals are now the chief activities of the League.

The Arts Council, independently or with other groups (College Theater, Orchestra, Chorus, Little Theater) sponsors work and performances or exhibitions in the arts. Under the aegis of the Athletic Association, the Dance Club choreographs its own productions. The Athletic Association also provides opportunities for all kinds of activities, from the Outing Club or organized intramural and varsity contests. *The Bryn Mawr-Haverford News* published semi-weekly and *The Review* published semi-annually welcome the participation of students interested in reporting, editing and critical or creative writing.

One of the most active of student organizations is the Curriculum

Committee which has worked out with the Faculty Curriculum Committee a system of self-scheduled examinations, currently in operation, and pass-fail grades for Freshman English as well as the possibility of receiving academic credit for "project" courses of a creative studio type or in social field work. Two new organizations sprang up in the year 1968-69 in response to the particular needs of the time. A Colloquium Committee organized a discussion day, during which all activities were suspended so that members of the college community could meet in small groups to consider jointly present policies and future plans of the College. A Black Students' Organization worked with members of the faculty and staff to bring to the campus in 1969-70 visiting lecturers to teach new courses in the appropriate departments.

Through their interest and participation in these many aspects of the college community the students exemplify the concern of Bryn Mawr's founders for intellectual development in a context of commitment to humanity.

Admission

Bryn Mawr College is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school adviser and several teachers for an estimate of her character, maturity and readiness for college.

The College admits only candidates for a degree.

Program of Secondary School Studies

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving good preparation for study at Bryn Mawr College would be as follows: English grammar, composition and literature throughout four years; at least three years of Mathematics, with emphasis on basic algebraic, geometric and trigonometric concepts and deductive reasoning; four years of one modern or ancient language, or a good foundation in two languages; some work in History and at least one course in laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 or more credits recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider such applications provided students have maintained good records and continuity in the study of basic subjects.

Application for Admission

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 1 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of $15 must accompany each application and is not refundable.

Candidates will be notified of the Committee on Admissions' action on their application in late April of the senior year.

Entrance Tests

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates, and should be taken between March of the junior year and January of the senior year. The tests may be taken in either the junior or senior year, or divided between the two years. If possible, Achievement Tests should be taken in current subjects. Students should offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. No special preparation, other than work well done in a good school, is required for successful performance on these tests.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to *College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey 08540 or P. O. Box 1025, Berkeley, California 94701.*

Interviews

All candidates are expected to have an interview, before January 15, either at the College or with an alumna area representative. Appointments for interviews and campus tours should be made in advance by writing or telephoning the Office of Admissions (215 LA 5-1000). The Office of Admissions is open from nine to five on weekdays and, except during March, July and August, on Saturdays from nine to one.

A student who is unable to visit the College should write to the Director of Admissions for the name and address of an alumna representative in her area.

Early Decision Plan

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the end of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude Test in March or May of the junior year and three Achievement Tests (English and any two others) in March, May or July of the junior year.

2. After her school has reviewed the results of these tests together with her three-year high school record, she must file *by October 1,* a preliminary application, a statement obtained from the College that she is a candidate under the Early Decision Plan, and all other application forms.

3. She should arrange for the required interview at the College or with an alumna area representative. Names and addresses of the area representatives may be obtained from the Director of Admissions.

4. She will be notified by the College by the end of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission and to file an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

5. A student who has been assured of admission will be asked to make a deposit of $50 by February 1, if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill and is not refundable.

Advanced Placement

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more ad-

vanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree.[1] With the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

The Advanced Placement Tests are given at College Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

Transfer Students

Each year a few students are admitted on transfer to the sophomore and junior classes. Successful transfer candidates have done excellent work at other colleges and universities and present outstanding high school records which compare favorably with those of entering Bryn Mawr freshmen. Students are admitted only for the term beginning in September; there are no mid-year admissions. Transfer students who will have earned the Associate of Arts degree may apply for financial aid for the first year. Other students may not apply for financial aid from Bryn Mawr until they have completed a year's work at the College.

Transfer candidates should file applications as early as possible and no later than April 1 of the year of entrance. Application forms and instructions may be requested from the Director of Admissions.

Transfer candidates will be asked to submit official test reports from the College Entrance Examination Board of the Scholastic Aptitude and Achievement Tests taken in high school. Those who have not previously taken these tests will be required to take only the Scholastic Aptitude Tests. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or from the West Coast office of the Board at Box 1025, Berkeley, California 94701.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree transfer students must have completed a minimum of

1. The grade of 5 is required in English and in History.
See also pages 43-46, sections II and III.

two years of full-time study at the College. Students who have failed to meet the prescribed standards of academic work or who have been put on probation, suspended or excluded from other colleges and universities, will under no circumstances be admitted.

Candidates for transfer will be notified of the action taken on their applications by late May.

Foreign Students

Bryn Mawr welcomes applications from foreign students between the ages of 17 and 21 who have outstanding secondary school records and who meet university entrance requirements in their native countries.

Application forms and instructions are available from the Director of Admissions. No application fee is required. Foreign applications should be filed early in the year preceding entrance and must be complete by April 1.

Foreign applicants will be asked to take the Scholastic Aptitude Tests of the College Entrance Examination Board. Achievement Tests are recommended but not required. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the West Coast office of the Board at Box 1025, Berkeley, California 94701. Registration arrangements for students taking the tests abroad should be made at least two months prior to the scheduled testing date.

All foreign applicants whose native language is not English will be required to present credentials attesting to their proficiency in English. The Test of English as a Foreign Language (TOEFL) is recommended but not required for all non-native speakers of English unless they have a diploma from an institution in which English is the sole medium of instruction. TOEFL registration information can be obtained by writing the Educational Testing Service, Princeton, New Jersey 08540.

Withdrawal and Readmission

A student who has withdrawn from College is not automatically readmitted. After a year's absence, she may request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Evidence of the student's ability to resume work at Bryn Mawr may be requested in the form of records

from another university or medical approval. Applications for readmission will be reviewed twice during the year, in late February and in June. Students who file an application by February 15 will be notified of the Committee's decision in early March. Those who file by June 10 will be notified late in June.

Leaves of Absence

A student whose status at the College is not in question may apply to her Dean for a leave of absence. A leave may be requested for one semester or two consecutive semesters, and once approved, reinstatement will be granted. The estimated residential space available at the time a student wishes to return to the College will be a factor in the consideration of requests for leaves. Application should be made by April 1 of the academic year preceding the requested leave. Applications made after this date will be considered only in exceptional circumstances. The Deans and members of the student's major department will review any questions raised by the student or her Dean regarding the approval of the leave. In case of study at another institution, either foreign or domestic, the transfer of credits will be treated in the usual manner by the Committee on Transfer. A student should confirm her date of return, by letter to her Dean, by March 1 preceding return for the fall semester and by December 1 for return in the spring semester.

A student extending her leave beyond the approved period will have to apply for readmission.

Medical Leave of Absence

A student may, on the recommendation of the College Physician or her own doctor, at any time request a medical leave of absence for reasons of health. Re-entrance will be granted upon evidence of recovery.

Academic Facilities and Residence

The Library

The M. Carey Thomas Library, containing over 330,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Medieval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students.

So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending on it, that a new library building, to be named for Mariam Coffin Canaday, is under construction and will be completed during the academic year 1969-70. The new building will provide greatly increased space for both books and readers, with study areas in the stacks as well as carrels, conference rooms and other study facilities. All the collections will be moved into the new library except that of the Quita Woodward Memorial Room and those of Classical and Near Eastern Archaeology and His-

tory of Art. These departments will take over the West Wing of the M. Carey Thomas Library, converting the stacks into a study area and making more accessible the collections of photographs and slides. The rest of the M. Carey Thomas Library will continue to provide offices for the majority of faculty in the humanities and social sciences as well as informal meeting rooms and the great Reading Room.

Also under the Director of Libraries are the separate collections which belong to the science departments of the College. Each of these has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Union Library Catalogue of Philadelphia, situated at the University of Pennsylvania, enables students to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Students wishing to use another library for material not available at Bryn Mawr must secure from the Bryn Mawr head librarian a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Archaeology Collections

The Ella Riegel Museum of Classical Archaeology, housed on the third floor of the Library, West Wing, contains a small study collection of Greek and Roman minor arts, especially vases, and a selection of preclassical antiquities. The Museum was formed from private donations such as the Densmore Curtis collection presented by Clarissa Dryden, the Elisabeth Washburn King collection of classical Greek coins, and the Aline Abaecherli Boyce collection of Roman Republican silver coins. Professor Hetty Goldman has given the Ella Riegel Museum an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. The collections are used for small research projects by undergraduate and graduate students.

Anthropology Museum and Laboratory

The Anthropology Laboratory in Dalton Hall houses several large col-

lections of New World artifacts, including the W. S. Vaux Collection of archaeological and ethnological materials. This important collection, made during the last half of the nineteenth century, has as its main emphasis the artistic works of New World Indians. The Anne and George Vaux Collection represents a wide selection of American Indian basketry from the Southwest, California and the Pacific Northwest. The extensive Ward Canaday Collection contains outstanding examples of most of the ceramic and textile traditions known for Peru. Other comprehensive collections, given by faculty and friends of the College, represent the Old World Paleolithic and Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities. These collections are shortly to be enlarged by osteological materials and casts of fossil hominids. There is also a small but growing collection of ethnomusical recordings, representing the music of native peoples in all parts of the world. Students are expected to make use of these materials and laboratory facilities; there are limited display areas available for those interested in working on museum exhibits.

Laboratories

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building for the biological sciences. South of Park Hall is the building for the physical sciences, which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. There are rooms in the Biology Building for work with radioactive materials, for microphotography and for glass blowing.

Bryn Mawr, Haverford and Swarthmore Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 15,000,000 bytes of random access disk storage. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, IBM 2260 keyboard display terminals, and two small satellite computers, one with card input-output.

The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service are 25,000 maps. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

Language Laboratory

The Modern Language Departments jointly maintain a Language Laboratory in Dalton Hall. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Halls of Residence

There are on campus nine halls of residence, which provide full living accommodations for from 50 to 135 students. The newest of these, Eleanor Donnelley Erdman Hall, opened in September 1965. It was named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors, 1951-56. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. In addition there

are three smaller halls which constitute language houses for upperclassmen who wish to speak French, German or Spanish. Construction is well under way on the Clarissa Donnelley Haffner Hall which will bring together into a "European village" students of these languages.

In the year 1969-70 an experiment in coeducational living will be tried: Radnor Hall will house students from both Bryn Mawr and Haverford who have expressed interest in the project; and other Bryn Mawr students have signed up for rooms in a section of a Haverford residence hall.

College officers called wardens are in charge of the residence halls. They may be single women or married couples who are members of the Dean's staff but at the same time close to the undergraduates in age and engaged either in teaching or in studying for an advanced degree. They are interested in all aspects of each student's welfare and they work, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply rugs, curtains and any other accessories they may wish.

The maintenance of halls is the responsibility of the Director of Halls and a staff of managers. Food service is provided by a national food service organization. No special foods or diets can be obtained.

Rules for Residence

Residence in the college buildings is required of all undergraduates with two exceptions: those who live with their families in Philadelphia or the vicinity; and no more than twenty seniors who in 1969-70 for the first time may live in houses or apartments of their own choosing after having received permission to do so from both the College and their parents. Married students are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to

respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the Spring vacation and here undergraduates may occupy rooms at $3.50 per day.

Non-Resident Students

For non-resident students, there is a suite of rooms in Erdman Hall containing study space, a kitchenette, dressing room and showers. College mail and campus notices will be sent there throughout the academic year. The warden of one of the halls of residence is available for advice and glad to help plan teas or any other special occasions which the students may be interested in arranging. When space permits, students may make arrangements to have meals in the halls.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. A Dispensary fee of $25 entitles them to medical examination and consultation with the College Physician.

A non-resident student who wishes to enroll for the following year must make a deposit of $25 not later than June 1, which will be credited against the tuition charge. This fee will not be refunded in case of withdrawal.

Fees

Tuition

The tuition fee in 1969-70 for all undergraduate students, resident and non-resident, is $1850 a year. Constantly rising costs, however, make mandatory an increase of $300 to $2150 beginning in the year 1970-71. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about $3780 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

Residence

The charge for residence is $1150, $1250 or $1350, according to the size and location of the student's room. Residence fees are payable as follows:

$1150—payable $575 in October, $575 in February
$1250—payable $625 in October, $625 in February
$1350—payable $675 in October, $675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room in April. Each student enrolled for the following year must make a deposit of $50 not later than June 1. This deposit will be credited against the residence charge.

New students applying for residence will be billed $50 in April. This fee will be credited against the residence charge. It will not be returned in case of withdrawal after June 1.

New students assured admission under the Early Decision Plan are asked to make a room deposit of $50 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the

College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of $1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Summary of Major Expenses

For resident students, tuition and residence: $3000, $3100, or $3200 according to the type of accommodation.
For non-resident students, tuition: $1850.

Minor Fees and Charges

Laboratory courses (per semester):

One course of 2 hours or less a week	$ 7.50
One course of more than 2 hours a week	15.00
Two courses of more than 2 hours a week	25.00
Three courses of more than 2 hours a week	30.00
Health Insurance (Students' Reimbursement Plan)	27.80 a year
Dispensary fee for non-resident students	25.00
Graduation fee (payable in the senior year)	25.00

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

The Education Plan

For parents who wish to pay college fees on a monthly basis, the College offers the Education Plan in cooperation with the Bryn Mawr Trust Company. To finance a single year's cost it is necessary to sign an agreement at the beginning of the academic year. Contracts include the benefit of parent life, total and permanent disability insurance. For information, write to the Business Manager of the College.

General Information

Student Advising

The deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and two Assistant Deans are class advisers. The Dean of the College advises seniors, one Assistant Dean advises sophomores and juniors, and another, the freshmen. A Scholarship Officer administers the financial aid program including loans as scholarship aids. The wardens of residence halls, who are members of the Dean's staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the Student Freshman Week Committee and the College provide a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. Freshmen with their parents have interviews with the President and the Assistant to the President. In addition, freshmen have individual appointments with the Deans to plan their academic program for the year. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

Academic Standards and Regulations

Faculty rules governing academic work and the conduct of courses are stated in a booklet, "Academic Rules for Undergraduates," given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the

College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the Faculty and the Dean of the College or an Assistant Dean.

Attendance at Classes

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept. Each instructor will make clear his view concerning absence from class.

Students should note that instructors are not notified of absences because of illness unless a student has missed three days of classes.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructors about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructors. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

Health

An extensive program, including periodic physical examinations and regular work if needed or desired during the first two years in the De-

partment of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 18-bed infirmary with a full staff of physicians and nurses. Additional medical and surgical facilities are available at the Bryn Mawr Hospital and in nearby Philadelphia.

Students receive out-patient care in the college dispensary and in-patient care when necessary in the Infirmary. With the exception of continuing psychiatric appointments, medical consultations are free of charge. Charges for psychiatric care are arranged individually. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus, diphtheria and poliomyelitis, vaccination against smallpox, an intradermal tuberculin test and ophthalmologist's certificate are required. If the intradermal tuberculin test is reported positive a chest x-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the college consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the Infirmary for seven

days, not necessarily consecutive, during the year, to attendance by the college physicians during this time and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is $15. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of $25, which entitles them to unlimited dispensary and laboratory service and free consultation with the college physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Student's Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is $27.80 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

Insurance

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.

Curriculum

The present plan of study takes into account both the changes of recent years in secondary school education and the expectation of graduate school on the part of a larger proportion of students. It provides flexibility and makes it possible for students to include a wide range of fields of knowledge and to have great freedom to explore and elect. Some of the flexibility has been achieved by including all departments of the College in a divisional system, thus allowing both humanist and scientist a variety of ways in which to meet college requirements.

The Plan for the Curriculum

I. All candidates for the A.B. degree shall present 16 units[1] of work. In most cases a unit of preparation for the Final Examinations in the Major Subject will constitute one of these units.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

Group I	*Group II*	*Group III*[3]	*Group IV*
History	Biology	English Literature	History
Philosophy	Chemistry	Modern Literatures	Philosophy
Anthropology	Geology	Classical Literatures	Archaeology
Economics	Physics		History of Art
Education	Psychology 101		History of Music
Political Science	Mathematics[2]		History of Religion
Psychology (Social)			
Sociology			

1. A unit of work is the equivalent of eight semester hours and is either a year course, or when appropriate, two one-semester courses.
2. Mathematics may not be chosen as fulfilling the Group II requirement if only one course in that group is taken.
3. The following courses satisfy the requirement:
English 101, 102a/b and all 200 courses under "Literature" except 201a/b
French 201, 202 and all 300 courses
German 202 and all 300 courses
Greek 101, 201, 203 and 301
Italian 201, 202, 303 and 304
Latin 101a/b, 201a/b, 202a/b; special cases 301 and 302
Russian 300 courses and 203 with permission
Spanish 201, 203 and all 300 courses.

The following directions and qualifications are to be noted:

a. A student (not majoring in subjects under Group II) may elect a second course under Group II as an alternative to any one of her other divisional requirements.

b. No course may satisfy more than one divisional requirement. Students majoring in History or Philosophy may count a course in their major as satisfying the requirement in *either* Group I or Group IV, but not both.

c. Courses taken to satisfy the requirements in English and Languages or Mathematics described below do not count as fulfilling divisional requirements.

III. In addition to the divisional requirements, each student must:

A. Include in her program two semesters of English composition (English 015) unless by a score of 5 on the Advanced Placement Test she has shown evidence that she has attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or in one language and mathematics, the level to be demonstrated in one of the three following ways:

1. She may demonstrate a knowledge of two foreign languages by

a. passing an examination offered by the College every spring and fall, or

b. passing with a grade of at least 70 a College course above the elementary level (such courses must be completed before the senior year), or

c. attaining a score of at least 590 (in one language) on a College Board Achievement Test taken in December or January of the senior year of high school and/or by passing with an honor grade an Advanced Placement Test.

2. She may offer one language to be tested as described above and demonstrate proficiency in mathematics by

a. attaining a grade of 4 or 5 on the Advanced Placement Test, or

b. passing an examination offered by the Department of Mathematics each spring and fall, or

c. achieving a grade of at least 70 in Mathematics 101, 103, or a more advanced course.

3. She may offer one language to an advanced level of proficiency to be demonstrated by passing with a grade of at least 70 one course or two semester courses at the 300 level.

IV. At the end of the sophomore year each student must choose a major subject, and in consultation with the departmental adviser plan an appropriate sequence of major and allied courses; she must also make plans for fields which she will offer in the Final Examinations in the Major Subject and the kind of preparation for these examinations which she will undertake. Usually a major is made up of four courses, two courses of allied work, the equivalent of one advanced course in preparation for Final Examinations in the Major Subject, and these examinations in the spring of the senior year. No student may be required to offer more than six courses in the major subject. Students invited to participate in the Honors program count the Honors project as one of the major subject units.

In brief outline, each student's program will include:

1. a unit of work in English, unless she is exempt
2. work to achieve the required level of proficiency in
 one language, or
 two languages, or
 one language and mathematics
3. four units of work, one from each of the divisions I-IV
4. a major subject sequence of at least four units of work and two units of allied work
5. elective units of work to complete an undergraduate program of at least 16 units.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

A student with unusual interest or preparation in several areas could consider a double major, a major with a strong minor, or a special

program involving work in several departments built around one major as a core. Such programs can be arranged by consulting the Dean and members of the departments concerned.

Numerical grades on the scale of 100 are given in all courses counting for the degree except in English 015, Interdepartmental 220c and studio courses where the mark recorded is "Pass" or "Fail." Each student must attain a grade of 70 or above in at least half of her numerically graded courses and a grade of at least 60 or "Pass" in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.

The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude, magna cum laude,* and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

Credit for work taken elsewhere is given as follows:

1. Transfer credits (see page 28)

2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and, in the case of required or major and allied work, by the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students at Bryn Mawr may register for courses at Haverford (1) in order to include in their programs work not offered at Bryn Mawr, (2) in order to solve problems of schedule conflicts when courses are offered at both colleges and (3) whenever major departments advise.

Students registered for courses at Haverford should note that Haverford courses begin on the half hour and therefore be certain that their schedules allow for transportation time.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so after their

freshman year. Students who wish to present summer school work for credits should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below 70. Credit given will be calculated on an hour-for-hour basis.

Supplementary requirements for the Degree are:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

b. Physical Education

All students must meet the requirement in Physical Education. (See page 139.)

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.

Premedical Preparation

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enters these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a and 203, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other

subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its course of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

Preparation to Teach

Students majoring in a liberal arts field which is taught in the secondary school may, by appropriate planning early in the undergraduate career, prepare themselves to teach in the public junior and senior high schools. A conference with Mrs. Cox or Mrs. Maw in the Department of Education is urged upon students who are considering the possibility of entering the teaching profession. Every state requires that candidates for teaching positions present a certificate issued by its state department of public instruction. Training and field experience leading to the certificate vary somewhat from state to state but the pattern is similar. Students at Bryn Mawr who earn teaching credentials valid in the state of Pennsylvania will usually be able to satisfy certification requirements in other states.

Coordination in the Sciences

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first

three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their course of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

Interdepartmental Courses

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

Credit for Creative Work in Art and Music

Although Bryn Mawr does not have a regular program of studio courses in Art and Music, it will be possible beginning in 1969-70 for serious students of the arts and music to receive elective academic credit for creative work just as students of creative writing do. For details see under the Departments of History of Art and Music.

Black Courses

New courses will be offered in three departments in 1969-70: History 230 (A History of the Afro-American People); Political Science 231 (Black Participation in American Politics); Sociology 230a (The

Negro Family in the United States). In addition, an interdepartmentally sponsored Seminar on Black Studies (Interdepartmental 400) will cover a variety of topics and be open to both faculty and students who wish to increase their competence in this area.

Language Houses

In recent years three small residence halls served as language houses for upper-classmen who wish to speak French, Spanish or German. Next year while a new group of language houses is being built, there will be only German and Spanish houses.

Sophomores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

Institut D'Études Françaises D'Avignon

Bryn Mawr College offers a summer program of intensive work in signficant aspects of French culture. The program is open to men and women students from other colleges. Certain of the courses carry graduate credit. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

Centro de Estudios Hispánicos en Madrid

Bryn Mawr also offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from

other colleges. The instructors are members of college and university staffs who are familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A small number of scholarships is available each year. The *Centro* was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.

The Junior Year Abroad

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar and Smith Colleges or at *L'Académie;* in Geneva, Florence, Hamburg or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

Scholarships and Other Student Aid

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years

have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for approximately one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study 1969-70

Key to Course Numbers and Symbols

001-099
indicate elementary and intermediate courses.
With the exception of Greek 001 and Russian 001 these courses are not part of the major work.

100-199
indicate first-year courses in the major work.

200-299
indicate second-year courses in the major work.

300-399
indicate advanced courses in the major work.

400-499
indicate special categories of work (e.g., 401 for Honors, 403 for supervised unit).

* . . . indicates elective courses, open to all students without prerequisite unless a special prerequisite is stated.

a . . . the letter "a," following a number, indicates a half-course given in the first semester.

b . . . the letter "b," following a number, indicates a half-course given in the second semester.

c . . . the letter "c," following a number, indicates a half-course given two hours a week throughout the year.

[] . . . Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Haverford College courses are listed by number as they appear in the Haverford catalogue. It should be noted that first semester courses are indicated by odd numbers, second semester courses by even numbers.

Anthropology

Professor: Frederica de Laguna, PH.D.[1], *Chairman*
Associate Professor: Jane C. Goodale, PH.D., *Acting Chairman*
Visiting Lecturer: A. Irving Hallowell, PH.D.
Lecturers: Philip Kilbride, M.A.
Charles C. Kolb, B.A.

Professor of Music: Agi Jambor, M.A.[2] (Ethnomusicology)
Assistant Professor of German: Nancy C. Dorian, PH.D. (Linguistics)

The aim of the major is to introduce the student to an understanding of man and his works: human evolution, the origin and development of culture, the basic cultural patterns and social institutions in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

Requirements in the Major Subject: 101, 203a & b, 204 or 208, 301a and an additional half-unit of advanced work.

Allied Subjects: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society:* Miss Goodale, Mr. Kilbride, Mr. Kolb.
Man's place in nature and the development of his capacity for culture; the history of human culture to the rise of the early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples.

102a.* *African Heritage:* Mr. Kilbride.
Negro culture in West Africa and African cultural survivals in the New World.

203a. *Primitive Society:* Mr. Kilbride.
Analysis of social organization of pre-literate societies. Prerequisite: Anthropology 101.

1. On leave, semester I, 1969-70.
2. On leave, 1969-70.

203b. *Primitive Culture:* Miss Goodale.

Analysis of significant studies of culture illustrating problems in ethnography. Prerequisite: Anthropology 203a.

[204. *American Archaeology:* Mr. Kolb.]

Prerequisites: Anthropology 101 or 209b, or permission of instructor.

205b.* *Ethnomusicology:* Mme. Jambor.

The history and development of folk music; a comparative study. The materials studied will be taken from the cultures of Africa, the American Indians and others.

208. *Old World Prehistory and Human Evolution:* Mr. Kolb.

Prerequisite: Anthropology 101, or permission of instructor.

[209b.* *The American Indian.*]

301a. *Cultural Theory:* Mr. Hallowell.

Analyses of the important classical and modern contributions. Prerequisite: Anthropology 203a & b, or by permission of instructor.

302b. *Africa: Sub-Saharan Ethnology:* Mr. Kilbride.

Ethnographical problems of selected Sub-Saharan African societies. Prerequisite: Anthropology 203b.

[304a. *Culture and Personality:* Miss de Laguna.]

Final Examination: The final examination for students majoring in Anthropology is in two parts:

1. General Ethnology and Cultural Theory.
2. Prehistory and Culture History.

Preparation for these examinations is offered in the form of advanced courses and the Senior Seminars: 300a, Problems in Ethnography, and 300b, Problems in Culture History.

Independent work is offered to seniors of marked ability. If undertaken successfully the first semester, it may be continued as Honors Work or credited as Honors Work on the basis of one semester.

Biology

Professors: L. Joe Berry, PH.D., *Chairman*
Robert L. Conner, PH.D.
Jane M. Oppenheimer, PH.D.[1]
Assistant Professors: Audrey Barnett, PH.D.[2]
Anthony R. Kaney, PH.D.
Lecturer: Jane R. McConnell, PH.D.
Instructor: Claudia F. Bailey, M.A.
Assistants: Denise M. Gervase, A.B.
Kathryn Gogolin, A.B.
Sharon Murnane, A.B.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in understanding the biotic world in which man lives and his own position in it. Primary consideration is devoted, both in class and in the laboratory, to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments.

Requirements in the Major Subject: Biology 101, 201, 301, and at least one other advanced course and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

Allied Subjects: Chemistry, Physics. Other subjects may be included with the approval of the Department.

101. *General Biology:* Mr. Berry, Mr. Conner, Miss Oppenheimer. Laboratory: Mrs. McConnell and assistants.

1. On leave, semester I, 1969-70.
2. On leave, 1969-70.

A presentation of the fundamental principles of cellular and organismic biology. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory three hours per week.

201a. *Developmental Biology:* Miss Bailey.

A presentation of some of the fundamental aspects of developmental biology. The development of vertebrates is studied in the laboratory. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

201b. *Genetics:* Instructor to be announced.

A study of the basic principles of genetics and the modern developments in the field. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

301. *Physiology:* Mr. Conner, Mr. Berry.

An integrated course devoted to a study of the activities of cells in terms of physical and chemical processes and of organismic functions characteristic of plants and higher vertebrates. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101 and 201, Chemistry 101 and 202. Chemistry 202 may be taken concurrently.

[351. *Advanced Genetics.*]

Selected topics in genetics. Each semester may be taken independently for one-half unit of credit. Lectures three hours per week. No laboratory. Prerequisite: Biology 201b.

[352. *Advanced Plant Physiology.*]

A study of recent advances in photosynthesis and photomorphogenesis of plants. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 301, Chemistry 202. Chemistry 202 may be taken concurrently.

353. *Biochemistry:* Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours per week. Prerequisites: Chemistry 202, Biology 301; one or both of these prerequisites may be waived by permission of the Department. Physics 101 is recommended. This course may be taken without labora-

tory for one-half unit of credit by students concurrently taking Chemistry 203 or an advanced course in Biology.

354. *Bacteriology and Immunology:* Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and the immune response of animals. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201, Chemistry 202.

[355. *Analysis of Development:* Miss Oppenheimer.]

A reading and discussion course devoted to the contemporary literature of developmental biology. Selected embryological techniques are studied in the laboratory.

Honors Work: Honors work in any of the advanced fields is offered to qualified students.

Final Examination: The Final Examination consists of one four-hour general examination covering the areas of study of the four years of undergraduate work and two four-hour examinations in specific fields. Students who elect Honors work are excused from one of the field examinations.

Chemistry

Professors: Ernst Berliner, PH.D., *Chairman*
Frank B. Mallory, PH.D.
George L. Zimmerman, PH.D.
Associate Professors: Jay Martin Anderson, PH.D.
Joseph Varimbi, PH.D.
Lecturer: Frances Bondhus Berliner, PH.D.
Assistants: Robert J. Ferguson, B.A.
Lynn Penn, A.B.
Donna Amenta, A.B.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

Requirements in the Major Subject: Chemistry 101, the three 200 courses and one unit of advanced work. Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

Allied Subjects: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry:* Mr. Mallory, Mrs. Berliner and assistants.
An introduction to the theories of chemistry and the study of the nonmetals. Introductory quantitative techniques. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

101b. *General Chemistry:* Mr. Berliner, Mrs. Berliner and assistants.
Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three hours laboratory a week.

201. *Inorganic Chemistry:* Mr. Varimbi.

Correlations of chemical and physical properties based on the Periodic Table; Structures of inorganic compounds; Equilibria in acid-base and complex-ion systems. Laboratory work includes analytical techniques, synthesis, purification, and characterization of a variety of compounds by chemical and instrumental methods. Three lectures, five hours laboratory a week.

202. *Organic Chemistry:* Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry:* Mr. Anderson.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

220c. (INT.) *Introduction to Automatic Computation:* Mr. Snyder and members of several Departments.

See Interdepartmental Course 220c, page 137.

301b. *Advanced Inorganic Chemistry:* Mr. Varimbi.

Two lectures a week.

302a. & b. *Advanced Organic Chemistry:* Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. (The first semester may be taken without the second half unit.)

303a. & b. *Advanced Physical Chemistry:* Mr. Zimmerman.

Two lectures and one conference a week. One semester laboratory (5 hours) throughout the year. Prerequisites: Chemistry 203; Mathematics 201 or its equivalent. The first semester may be taken without the second.

56. *Biochemical Mechanisms:* Mr. Dunathan (at Haverford).

Given in second semester. Prerequisite: Chemistry 202.

Final Examination: The examination consists of three parts: a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered.

Honors Work: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Classical and Near Eastern Archaeology

Professor: Machteld Mellink, PH.D., *Chairman*

Associate Professors: Brunilde Sismondo Ridgway, PH.D.
Kyle M. Phillips, Jr., PH.D.[1]

Lecturer: John E. Coleman, PH.D.

Instructor: Adele F. Berlin, A.B.

Assistants: Margaret L. Cool, A.B.
Dian Sheldon, M.A.

The major courses provide an extensive survey of the ancient Mediterranean and Near Eastern civilizations, with emphasis on Greek art and archaeology.

Requirements in the Major Subject: Archaeology 101, 201b, 203, 205b, and 301.

Allied Subjects: Ancient History, Anthropology, Greek, History of Art, Latin, Akkadian.

101. *An Introduction to Ancient Art:* Mrs. Ridgway, Mr. Coleman.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage, its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

1. On leave, 1969-70.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

[201b. *Egyptian and Mesopotamian Archaeology:* Miss Mellink.]

[202a.* *Cultural History of Archaeology:* Miss Mellink.]

[202b. *Ancient Greek Cities and Sanctuaries:* Mrs. Ridgway.]

203a. *Greek Sculpture:* Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture:* Mrs. Ridgway.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

205b. *Aegean Archaeology:* Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

301a. *Greek Vase-Painting:* Mr. Coleman.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture:* Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[303. *Anatolian and Syrian Archaeology:* Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

[304a. *Ancient Monumental Painting:* Mr. Phillips.]
The arts of wall-painting and mosaics in Greece and Italy.

305. *Akkadian II:* Mrs. Berlin.
The course will continue with the reading of the major legal and literary texts.

Final Examination: One general examination in pre-classical (Egyptian, Mesopotamian, Aegean) and classical archaeology; two special examinations in fields covered by the undergraduate courses, but with questions of a broader scope. Students are encouraged to take one of the special examinations in Greek. During the senior year, majors attend weekly conferences in each of their special fields.

Honors Work: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

Excavations: The Department has two excavation projects. The excavation of Karatash-Semayük in Lycia (Turkey) is conducted as a field seminar in the fall, with full credit for graduate students and seniors by invitation. The second project, the excavation of an Etruscan archaic site at Murlo near Siena, takes place during the summer on a non-credit basis for graduate and undergraduate students of archaeology.

Economics

Professor: Joshua C. Hubbard, PH.D., *Chairman*

Associate Professor: Richard B. Du Boff, PH.D.

Visiting Lecturers: Helen Manning Hunter, PH.D.
Susan Wachter, M.A.

At Haverford

President: John R. Coleman, PH.D.

Professors: Holland Hunter, PH.D.
Howard M. Teaf, Jr., PH.D.

Associate Professor: L. Charles Miller, PH.D.

Assistant Professor: Samuel Gubins, PH.D.

The major in Economics consists of courses given at Bryn Mawr and at Haverford Colleges. It is designed (1) to provide students with an understanding of economic processes and institutions, (2) to train them in the concepts and methods used to analyze those processes and institutions, and (3) to enable them to make independent policy judgments.

Requirements in the Major Subject: Economics 101a and 102b, and four and one-half units of intermediate and advanced work. The introductory courses, Economics 101a and 102b, are designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education. The group of intermediate courses offers a fuller range of material on major topics in the discipline, and is designed to meet a wide variety of student interests. The group of advanced courses supplies a theoretical and methodological foundation for those planning to make use of economics in their professional careers. All students, especially those who intend to seek an advanced degree in Economics, are strongly urged to take Mathematics 101 or 103, which will count as part of their allied work.

Prospective majors in Economics are advised to take Economics 101a and 102b in the freshman year.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

101a. *Introduction to Economics:* Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of the level of national income and employment, and the techniques and institutions which have been devised in the United States for promoting growth in output with minimum instability in prices and employment.

102b. *Introduction to Economics:* Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of individual prices and incomes, the issues that arise in international economic affairs, and the problems that face poor countries.

201a. *Economic History and Development:* Mr. Du Boff.

Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; and shorter term variations in business activity and capital investment. Quantitative findings provide the points of departure. Prerequisite: Economics 101a, 102b.

[202b. *Non-Western Economic Development:* Mr. Hunter (Economics 22 Haverford).]

An introduction to the institutional settings and economic patterns that account for underdevelopment in poor countries, and a review of efforts to overcome barriers to rapid development. Case studies of selected countries in Latin America, Africa or Asia. Prerequisite: Economics 101a, 102b. Offered in 1970-71 and alternate years.

203a. *The Modern Corporation:* Mr. Teaf (Economics 37 Haverford).

An analysis of the institutional fundamentals underlying corporate decision-making, and a review of ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 101a, 102b.

204b. *Research seminar on The Modern Corporation:* Mr. Coleman.

[205b.* *Private Enterprise and Public Policy.*]

A theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises. Prerequisite: Economics 101a, 102b. Offered in 1970-71 and alternate years.

206b. *International Economic Theory and Policy:* Mr. Miller (Economics 26 Haverford).

Current problems in international trade. The theory of trade. The balance of payments and the theory of disturbances and adjustment in the international economy. Economic integration. The impact of growth in rich and poor countries on the development of the world economy. Prerequisite: Economics 101a, 102b. Offered in alternate years.

207a. *Money and Banking:* Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisite: Economics 101a, 102b.

208b. *Public Finance and Fiscal Policy:* Mr. Hubbard.

A study of taxation and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full-employment economy. Prerequisite: Economics 101a, 102b.

209a. *Economics of Urban Poverty:* Mr. Gubins (Economics 29 Haverford).

Study of economic aspects of urban poverty problems, investment in human resources, financing of urban services, relations between income and earnings; theoretical and empirical analysis of benefits and costs of poverty programs. Prerequisite: Economics 101a, 102b.

[210b. *The Soviet System:* Mr. Hunter (Economics 32 Haverford).]

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisite: Two semester courses in Economics, Political Science, or History. Offered in 1970-71 and alternate years.

[211a. *Seminar on Research in International Trade:* Mr. Miller (Economics 27 Haverford).]

Student research will involve constructing measures of recent developments between trading nations, testing hypotheses using existing data and current statistical techniques, or attempting extensions of interna-

tional trade theory. Weekly seminars. Prerequisite: Economics 206b or permission of the instructor. Offered in 1970-71 and alternate years.

212b. *Comparative Economic Systems:* Mr. Du Boff.

An historical analysis of economic theory and philosophy (mercantilist, physiocratic, classical and neoclassical, Marxian and socialist, and Keynesian) and their relevance to capitalistic institutions and contemporary capitalism as a socioeconomic system. Prerequisite: Economics 101a, 102b.

213a. *Business and National Accounting:* Mr. Teaf (Economics 41 Haverford).

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 101a, 102b.

[216a. *Western European Economic Development:* Mr. Du Boff.]

Selected topics in the economic history of Britain, France, Germany and Italy since 1760 are examined, both theoretically and empirically. Representative topics will include economic growth, the "industrial revolution" and technological change, demographic trends, international trade and finance, the impact of the world wars, and the effects of national economic policies. Prerequisite: Economics 101a or 102b.

300b. *Research Seminar on Human Resources, Poverty and Urban Economics:* Mr. Gubins (Economics 30 Haverford).

Students will engage in independent empirical research on selected manpower development, poverty, and urban problems of the Philadelphia region. Weekly seminars will be concerned with problems arising out of research, particularly methodology and conceptual issues. Prerequisite: Economics 209a or permission of the instructor.

301a. *Statistical Methods in Economics:* Mr. Miller (Economics 43 Haverford).

An introduction to the concepts and procedures that underlie quantitative analysis of economic and other social data. Frequency distributions, probability and sampling, time series, index numbers, regression analysis, computer programming. Prerequisite: Economics 101a, 102b.

302b. *Introduction to Econometrics:* Mr. Miller (Economics 44 Haverford).
Quantitative methods for economic analysis and forecasting. Students may choose to emphasize either theoretical or empirical work. Each student will do a project using multiple regression. Prerequisite: Economics 301a or permission of instructor.

303a. *Macroeconomic Analysis:* Mr. Gubins (Economics 45 Haverford).
Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a, 102b.

304b. *Microeconomic Analysis:* Mr. Gubins (Economics 46 Haverford).
Systematic investigation of analytic relationships underlying consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a, 102b.

[305a. *Development Analysis:* Mr. Hunter (Economics 47 Haverford).]
Theoretical treatment of the structural changes associated with the process of economic development, especially in poor countries, and rigorous analysis of criteria for policy judgments in development programming. Introduction to input-output and linear programming methods. Prerequisite: Economics 101a, 102b.

306a. *Empirical Seminar:* Mr. Miller (Economics 61 Haverford).
Current problems, selected in accordance with student interests, are investigated with the aid of economic theory and quantitative methods. Research paper required. Prerequisite: Economics 301a, 302b.

Final Examination: The Final Examination for students majoring in Economics consists of:

1. An examination in general economic principles and problems;
2. An examination in economic theory; and
3. An examination in one of the following:
 a. Monetary-Fiscal Theory and Policy
 b. Private Enterprise and Public Policy, including Corporations
 c. International Economics
 d. Comparative Economic Systems, including the Soviet System
 e. Economics of Human Resources
 f. Economic History, American or Western European
 g. Economics of Development
 h. Quantitative Methods in Economics

With the permission of major and allied departments, one examination may deal with an allied subject.

Non-majors will be permitted to take a Final Examination in Economics if the Department of Economics judges their prior work in the discipline adequate.

Honors Work: One unit of Honors work may be taken by students recommended by the Department.

Education

President of the College: Katharine Elizabeth McBride, PH.D.

Professor and Director, Child Study Institute:
Rachel Dunaway Cox, PH.D., *Chairman*

Associate Professor: Ethel W. Maw, PH.D.

Associate Professor and Director, Thorne School:
Susan E. Maxfield, M.S.

Assistant Professors: Emmy A. Pepitone, PH.D.
Faye P. Soffen, PH.D.

Instructor: Beth M. Riser, M.A.

Assistant: Lelia Brodersen, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year. With careful planning at that time, work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a mental health service supported by the College, by the Lower Merion Township Schools and by funds granted under the comprehensive Mental Health-Mental Retardation plan of the Commonwealth of Pennsylvania. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools and at the Institute.

101b. *The Social Foundations of Education:* Miss McBride.

The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

[102b. *History and Philosophy of Education:* Mrs. Pepitone.]

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

201a. *Educational Psychology:* Mrs. Maw.

Psychology and measurement related to educational objectives particularly from the point of view of what is currently known about human social, affective, cognitive and learning behavior. Laboratory work is required.

[206a. *Child Psychology:* Mrs. Cox.]

The development of the child from infancy to late adolescence. Physical, intellectual and emotional growth and learning in the family and the school. Three hours lecture a week. Students do laboratory work in centers serving young children. Cooperating centers include the Thorne

School, agencies serving neglected children and nursery schools for disadvantaged children. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School:* Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School:* Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

[*Students electing Education 301a or 302a should note that student-teaching requires returning to the Bryn Mawr area early in September. Registered students may come into residence on the last day of Freshman Week but must make plans for earlier living arrangements.*]

Certificate to Teach

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department and in the major field or fields. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes Psychology 101 followed by the Social Foundations of Education and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised student teaching in the public school.

Selected Graduate Seminars: For certain undergraduates who have taken Child Psychology or Educational Psychology the following graduate seminars are open upon the consent of the instructor.

Problems of Child Development: Mrs. Cox.

Psychology of Exceptional Children: Mrs. Riser.

Diagnosis and Remediation of Learning Deficit: Mrs. Riser.

English

Professor: K. Laurence Stapleton, A.B.[1]
Associate Professors: Robert B. Burlin, PH.D., *Chairman*
Robert H. Butman, M.A.[1]
Thomas H. Jackson, PH.D.
Assistant Professors: Roger W. Cummins, PH.D.
Gwenn Davis, PH.D.
Peter J. Leach, M.F.A.
Clifford Earl Ramsey, PH.D.
Lecturers: Sandra M. Berwind, PH.D.
June Q. Koch, PH.D.
Joseph E. Kramer, PH.D.
Adrienne Lockhart, PH.D.
Instructors: Sandra I. Kohler, M.A.
Ramona T. Livingston, A.B.

The Department offers an opportunity to explore all periods of English literature. Majors will select a broad field of particular interest and devote special attention as well to a single figure, period, or literary genre. The major in English is designed to encourage comprehensive reading as well as concentrated study of the literature. It further seeks to develop a historical perspective, critical and writing abilities, and an understanding of the imaginative process.

Requirements in the Major Subject.
Prerequisite: One unit at the first-year (100) level or its equivalent.
Four second-year or advanced units in English Literature.
At least one full unit must be at an advanced (300) level.
At least one-half unit in the literature of the Middle Ages (201, 300, 301, 309).
One unit of work at Haverford College may be offered for major credit.

Allied Subjects: Majors are urged to build a strong ally in classical or modern literature, History, Philosophy, or History of Art. Other courses in Music, History of Religion, Political Science, Sociology and Linguis-

1. On leave, semester II, 1969-70.

tics may also be counted. A second-year writing course may be substituted for one unit of allied work.

Students contemplating graduate work in English are reminded that most graduate schools require a reading knowledge of French and German, and frequently Latin as well, for the Ph.D.

015. *Freshman English:* Mrs. Berwind, Mr. Cummins, Miss Davis, Mrs. Koch, Mrs. Kohler, Mr. Leach, Mrs. Livingston, Mrs. Lockhart, Mr. Ramsey.

Practice in writing based upon the study of selected authors, with emphasis upon critical analysis and the problems of the writer in his time. There will be weekly papers, two class sessions per week, and regular conferences. The student will select a section from one of the following groups:

a. Readings in 20th Century Literature; in American Literature; in the Novel: Fielding to Faulkner.

b. Time and Fate (16th to 20th Century Selections); Value and Experience (20th Century Selections); Vision and Revision (20th Century Selections); Tragic Themes and Forms (19th and 20th Century Selections).

c. Modes and Traditions in English Literature. *In this section there will be three class meetings per week as well as more reading. This section of the course may be substituted for the prerequisite to the English Major.*

Writing Courses

In the following courses weekly papers are required. Students who cannot meet these requirements should not elect any of these courses.

291a.* *Prose Writing:* Mr. Leach.

Practice in various forms, excluding fiction. Prerequisite: English 015 at Bryn Mawr.

292a. *Fiction Writing:* Mr. Leach.

& b. Attention is paid to the needs and interests of each student. Some required reading. Prerequisite: English 15 at Bryn Mawr. (Freshman are not eligible for this course. Haverford students must submit sample of work to instructor for admission.)

[293c.* *Advanced Writing:* Mr. Leach.]
Practice in various forms of writing with the emphasis on technical problems. Prerequisite: Any other writing course.

295a.* *Verse Composition:* Miss Stapleton.
Original verse composition, with a study of the principles of form.

298a.* *Playwriting and Production:* Mr. Butman.
Writing of two original one-act plays.

[298b.* *Advanced Playwriting and Production:* Mr. Butman.]
Writing of a full-length play and preparation of its production-book. Prerequisite: Approval of the instructor.

Literature

102a. Readings in English Literature: Mrs. Berwind, Miss Davis.
& b. Readings are chosen to illustrate particularly the development of genres and the themes related to them. A different, unified group of works will be used each semester.

103a. *Major Figures in English Literature:* Mrs. Kohler.
&b. A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201a. *Chaucer and His Contemporaries:* Mr. Burlin, Mrs. Lockhart.
& b. The first term will be devoted to a close reading of the *Canterbury Tales.* The second term will concentrate upon Chaucer's early poems and the *Troilus,* with supplementary readings from the Middle English period.

211b. *Sixteenth Century Poetry:* Miss Davis.
The course will study the poetry of the sixteenth century from Wyatt and Surrey to Ben Jonson and the early works of John Donne. It will include the non-dramatic works of Marlowe and Shakespeare, and special attention will be given to the sonnet sequence.

215a. *Spenser:* Mrs. Kohler.
The works of Edmund Spenser, with emphasis to be placed on a close reading of *The Faerie Queene.*

[217b. *English Prose of the Sixteenth Century:* Miss Davis.]
Major emphasis will be placed on satire and the prose romances.

225a. *Shakespeare:* Mr. Kramer.
& b. (a) From *Titus Andronicus* to *Hamlet* (ca. 1589-1600). The non-dramatic poetry of Shakespeare will be read with specific reference to illuminating the dramas.
(b) From *Troilus and Cressida* to *Henry VIII.*

[228b. *Modern Drama.*]
Shaw and his contemporaries; Irish playwrights, including Synge, O'Casey, and Yeats; more recent playwrights such as Eliot, Beckett and Pinter.

251a. *The Romantic Period:* Mrs. Koch.
& b. A close reading of the major poets: Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Political and cultural thought will be studied in conjunction with the poetry.

[254a. *The Victorian Period.*]
& b. Major poets and novelists, the prose of Carlyle, Mill, Ruskin and others. Some attention is given to the drama.

257a. *Nineteenth Century English Novel:* Mrs. Lockhart.
& b. Emphasis will be placed on the conceptions and development of literary forms. Some acquaintance with earlier and later fiction is desirable.

[260a. *American Literature:* Mr. Cummins.]
& b. The development of American literature from the colonial period to the present, with intensive study of major authors and prominent themes. Some attention will be given to American intellectual history.

263a. *American Writers of the Nineteenth Century:* Mr. Cummins.
Major attention to works by Emerson, Thoreau, Whitman, Hawthorne, Melville, Emily Dickinson, Howells and Mark Twain.

266b. *Modern American Fiction: Henry James to the Present:* Mr. Cummins.
Major works of fiction by representative American writers. Some attention will be given to American intellectual history.

268b. *American Short Fiction:* Mr. Leach.
Selected short fiction of Hawthorne, James, Hemingway and others.

270a. *Major Forces in Twentieth-Century Literature:* Mr. Jackson.
& b. Twentieth-century literature in its relationship to earlier literary and intellectual traditions, principal themes, and technical achievements, seen through extensive study of selected major twentieth-century writers.

The following courses are open primarily to advanced sutdents; enrolment will be restricted at the discretion of the instructor.

300. *Old English Literature:* Mr. Burlin.
After a brief introduction to the language and some reading of prose, the first term will be devoted to short lyrics and questions of Old English poetic style; the second term, to a careful study of the text and critical problems of Beowulf.

301a. *Readings in the Middle English Literature:* Mr. Burlin.
Texts will be chosen to suit the interests and abilities of the group: Romances, Lyrics and Drama; *Piers Plowman,* Gower, Lydgate, Malory and the Scottish Chaucerians.

[309b. *Medieval Narrative: From Beowulf to Malory:* Mr. Burlin.]
A study of the heroic traditions in medieval epic and romance. Continental and Old English works will be read in translation. A reading knowledge of classical epics will be expected.

321a. *English Drama to 1642:* Mr. Kramer.
& b. (a) Development of the English Drama from liturgical beginnings to the death of Elizabeth (1603). (b) Jacobean and Caroline Drama. Methods of production, emergence and interrelatedness of types and and modes of drama, and close attention to individual texts will be stressed in both semesters. (a) is not a prerequisite to (b).

[330. *The Seventeenth Century:* Miss Stapleton.]
Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About half of the time is devoted to Milton, and special attention is given to the thought of the period.

335a. *Milton:* Miss Stapleton.
The minor poems, chief prose works and *Paradise Lost, Paradise Regained* and *Samson Agonistes* will be studied in detail.

341a. *The Augustan Age:* Mr. Ramsey.

Close analysis of selected masterpieces of the major Augustan writers from Congreve to Fielding. Pope and Swift will receive the main emphasis.

371a. *Post-Romantic to Early Modern in English Poetry:* Mr. Jackson.

A study of Yeats, Pound, and Eliot and their Victorian Decadent and Symbolist roots.

382b. *Pastoral and Landscape Literature:* Mr. Ramsey.

Studies in the imaginative creation of ideal landscapes and the figurative interpretation of actual landscapes in selections from authors such as Virgil, Shakespeare, Spenser, Milton, Marvell, Pope, Keats, Stevens, Faulkner and Frost.

389b. *Studies in Twentieth-Century Criticism:* Mr. Jackson.

Some basic modes of modern critical thought (centering on Leavis and Richards) and their intellectual and philosophical backgrounds.

Final Examination: The Final Examination is in three parts:

1. During the first half of the senior year, all Seniors participate in conferences dealing with the principles of literary criticism and literary genres, based on the reading of selected documents by leading critics from Aristotle to T. S. Eliot. Instead of an examination in this field, the student presents a paper exploring further one of the topics or critics discussed.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
 a. The Middle Ages (to 1500).
 b. Later Middle Ages and Early Renaissance (1370-1600).
 c. The Renaissance (1500-1660).
 d. Neo-Classicism and Romanticism (1660-1832).
 e. The Nineteenth and Twentieth Centuries (English or English and American).
3. An examination in one of the following fields of special concentration: Old English; Middle English; Shakespeare; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; The Nineteenth Century; The Novel; The Drama from 1660 to the Present Time; Twentieth Century English and American Literature; American Literature.

The student may also propose a special field devoted to a single figure or literary genre. With the consent of the Department an examination in an allied subject may be constituted for the examination in the special field.

Honors Work: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on April 25.

French

Professors: Michel Guggenheim, PH.D., *Chairman*
Mario Maurin, PH.D.
Associate Professor: Gérard Defaux, *Agrégé*
Assistant Professors: M. Pauline Jones, PH.D.
Catherine Lafarge, PH.D.
Visiting Professor: William J. Roach, PH.D.
Lecturer: Margaret S. Maurin, PH.D.
Part-time Instructors: Judith H. McFadden, A.B.
Susan Schotz, A.B.
Assistant: Robert B. Dutton, A.B.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A third second-year course is devoted to advanced language training with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 001, 002 and 205c, the use of the Laboratory forms an integral part of the course.

French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the junior year or during the summer at the *Institut* in Avignon. Residence in French House for at least one year is advisable.

Requirements in the Major Subject: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, substitute a more advanced course for French 101. Occasionally, students may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

001. *Elementary French:* Members of the Department.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

002. *Intermediate French:* Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language:* Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201a. *French Literature of the Seventeenth Century:* Mr. Defaux.

The course will cover representative authors and literary movements of the century, including works of Corneille, Pascal, Molière, Racine, La Fontaine and La Bruyère. Special attention will be given to the concept of the Baroque, the development of Tragedy and the Age of Classicism.

201b. *French Literature of the Eighteenth Century:* Mr. Defaux.

The course will include texts representative of the Enlightenment and the Preromantic movement, with emphasis upon the development

of liberal thought as illustrated in the *Encyclopedie* and the works of Montesquieu, Voltaire, Diderot, and Rousseau.

202a. *French Literature of the Nineteenth Century:* Mr. Guggenheim, Miss Jones, Mr. Maurin.

The poetry, drama and prose of Romanticism. A study of representative novelists such as Stendhal, Balzac, and Flaubert. Poetry in the second half of the century: the aesthetics of the Parnasse, Baudelaire, the Symbolist movement.

202b. *French Literature of the Twentieth Century:* Mr. Guggenheim, Mr. Maurin, Mrs. Maurin.

A study of selected works illustrating the principal literary movements from the turn of the century to the present. Special attention will be given to Gide, Proust, Valéry and Claudel; the surrealist poets and their successors; the renaissance of the theater from Giraudoux to Beckett; the ideological and existentialist novel as represented by Malraux, Sartre, and Camus.

203a. *French Literature of the Middle Ages and the Renaissance:* Mr. Defaux.

Representative works of major authors of the Middle Ages (in modern French versions). Selected readings in the sixteenth century, with emphasis on Rabelais, Montaigne, and the Pléiade.

[204a. *French Stylistics.*]

Selected texts from the Renaissance to the contemporary period are submitted to stylistic analysis.

205c. *Advanced Training in the French Language:* Mr. Guggenheim, Miss Jones.

Intensive practice in writing and speaking the language. Compositions, literary translations, oral reports and discussions.

301. *French Lyric Poetry:* Miss Jones, Mr. Maurin.

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

[302. *French Drama.*]

A survey of the French theater, from liturgical drama to the "Theater

of the Absurd." Special attention will be given to the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1960:* Mr. Defaux, Mr. Guggenheim. The development of French fiction from the eighteenth century *roman de moeurs* to the *Nouveau Roman.* In the first semester particular attention will be paid to novelists such as Marivaux, Rousseau, Diderot, Laclos, Stendhal and Balzac. In the second semester works by such major novelists as Flaubert, Zola, Proust, Gide and Malraux will be discussed.

[304. *French Essayists and Moralists:* Mr. Guggenheim, Mr. Maurin.] Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus, and Sartre.

305a. *Marivaux, Giraudoux:* Miss Lafarge.

305b. *Romanciéres de Mme. de Stael á S. de Beauvoir:* Mr. Maurin.

Courses at Haverford

43. *Flaubert, Gide:* Mr. Cook.

44. *La Fontaine, Rimbaud:* Mr. Gutwirth.

Junior Year Abroad: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their junior year in France under one of the junior year plans, such as those organized by Sweet Briar, Smith or Hamilton Colleges.

Summer Study: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Etudes Françaises d'Avignon,* held under the auspices of Bryn Mawr. The *Institut* is designed for selected men and women undergraduate and graduate students with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

Final Examination: The Final Examination is in three parts:

1. An oral examination consisting of an explication of a French literary text.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

Honors Work: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

Professors: Edward H. Watson, PH.D., *Chairman*
Lincoln Dryden, PH.D.
Assistant Professors: Maria Luisa B. Crawford, PH.D.
William A. Crawford, PH.D.
J. Duncan Keppie, PH.D.
Assistants: Earl A. Shapiro, M.S.
Mary Emma Wagner, M.A.

The Department seeks to make students more aware of the physical world around them. The subject includes a study of the nature of the materials of which the earth is made, of the physical processes which have formed the earth and especially the earth's surface, of the history of the earth and its organisms, and of the various techniques necessary to investigate earth processes and history. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies outside the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth

unit may be chosen in Geology or in an allied field approved by the Department.

Allied Subjects: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology:* Mr. Watson.
Laboratory: Mrs. Crawford, Mr. Crawford, Mr. Keppie.
A study of earth materials; earth structure; surface processes such as the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes; and of the features to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology:* Mr. Dryden.
Laboratory: Mrs. Crawford, Mr. Crawford, Mr. Keppie.
The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.

201. *Crystallography and Mineralogy:* Mr. Watson.
Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory a week.

[202. *Paleontology:* Mr. Dryden.]
A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours of laboratory a week.

[203. *Physiography:* Mr. Watson, Mr. Crawford.]
The origin of land forms: a study of chosen areas from the viewpoint of topography, geologic structures, processes of erosion, climate and soils. Geology 101 is a prerequisite.

301a. *Structural Geology:* Mr. Keppie.
Introduction to the analysis of igneous, sedimentary and metamorphic structures, faults and folds and field mapping. Three lectures and three hours of laboratory or field work a week.

301b. *Tectonics:* Mr. Keppie.

Fundamental concepts, e.g., continental drift, sea floor spreading and the origin of island arcs, mountain chains, geosynclines, oceans, continents and rift valleys in the context of earth hypotheses such as convection currents, the origin of the earth, etc. Three lectures and three hours of laboratory or field work a week.

302. *Stratigraphy:* Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303a. *Introduction to Geochemistry:* Mr. Crawford.

An elementary treatment of thermodynamics and solution chemistry as applied to geological systems to include phase equilibria, structural chemistry and the behavior of elements in solution. The laboratory will consist of: determination of heats of reaction, fusion, etc.; phase equilibria experiments; and oxide analyses of rocks and minerals by both wet chemical and instrumental methods. Prerequisite: Geology 101 and Chemistry 101. Three lectures and three hours of laboratory per week.

304b. *Introduction to Petrology:* Mr. Crawford.

The origin, mode of occurrence and distribution of igneous and metamorphic rocks. The laboratory will include hand specimen, microscopic and chemical study of the various rock types. Prerequisite: Geology 101 and Geology 201 (may be taken concurrently). Three lectures and three hours of laboratory per week.

305a. *X-ray Crystallography:* Mrs. Crawford.

An introduction to the elements of x-ray Crystallography including the geometry of crystals, the physics of x-rays and how x-rays interact with crystals. The laboratory will cover experimental study of powder and single-crystal x-ray diffraction. Prerequisite: Any 101 science. Two lectures, four hours of laboratory per week.

Final Examination: Shall consist of:

1. A seminar in "Topics in Geology," led by members of the Department.
2. a. A written report on an independent project in the field, laboratory or library.

b. Or, an examination in a special field of geology.
c. Or, a general examination in an allied field.

Honors Work: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

Professor: Christoph E. Schweitzer, PH.D., *Chairman*

Associate Professor: Hans Bänziger, PH.D.

Assistant Professor: Nancy C. Dorian, PH.D.

Lecturer: Rena Kreutz, Staatsexamen

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 001 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 001 and 201c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in one of the summer schools of Germany, Austria or Switzerland and/or by spending the junior year in Germany.

The German Departments of Bryn Mawr College and Haverford College cooperate to offer the widest possible range of courses to students in both colleges. Advanced Haverford courses are, therefore, listed below.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 201c, 202, 300a, and at least one other advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

Allied Subjects: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

001. *Elementary German* (Speaking and Reading) : Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature:* Mr. Bänziger.

Continued practice in speaking and writing. Reading and discussion of selected works of German literature, including poetry, novellae, and drama. Emphasis will be on nineteenth and twentieth century authors.

201c. *Advanced Training in the German Language:* Mr. Bänziger, Miss Kreutz.

Advanced training in speaking and writing; stylistic exercises; reading of contemporary non-fictional material, including newspapers; oral reports and discussions; compositions.

202a. *Goethe:* Mr. Schweitzer.

Study of Goethe's works, including Faust, within their contemporary literary and intellectual setting.

202b. *Romanticism:* Mr. Schweitzer.

Study of the German romantics, their ideas and works, from Novalis to Heine.

300a. *German Literature from the Beginnings to the Baroque:* Miss Kreutz.

An intensive survey of the literature of the Middle Ages, Humanism and the Reformation, and representative works of the Baroque period. The older works will be read in modern German translations.

[301b. *Introduction to Germanic Philology:* Miss Dorian.]

History of the language situation in the German-speaking world from the earliest records until the present day.

[302b. *German Language and Literature of the Middle Ages.*]

Introduction to the German language and culture of the Middle Ages. Reading of representative works such as *Der arme Heinrich, Tristan* and selections from *Minnesang,* in the original language.

303a. *Modern German Literature:* Mr. Bänziger.

Close study of the works of several major writers, among them Thomas Mann, Franz Kafka and Bertolt Brecht, within the context of modern Western literature.

304b. *The German "Novelle":* Mr. Bänziger.

Discussion of the evolution of this form and close analysis of representative works.

[305. *The German Drama:* Mr. Bänziger.]

Study of various dramatic forms. Emphasis on parallel European and modern developments.

[306. *German Poetry.*]

Study of various dramatic forms. Emphasis on parallel European and Various critical approaches will be discussed and used.

Courses at Haverford

33. *Studies in German Lyric Poetry:* Mr. Stiefel.

44. *Advanced Topics: Recent German Fiction:* Mr. Bauer.

Final Examination: The Final Examination is in three parts:

1. An oral examination.
2. An examination of a literary genre or on the history of the German language.
3. An examination on an author or a period of German literature, or on an allied subject.

Honors Work: On recommendation of the Department, students in the senior year will be admitted to Honors work consisting of independent reading, conferences and a substantial paper.

Greek

Professors: Mabel Louise Lang, PH.D., *Chairman*
Richmond Lattimore, PH.D., LITT.D.

Instructor: Gregory W. Dickerson, M.A.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

Requirements in the Major Subject: Greek 001, 101, 102 (half-unit), 201 and 301.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

001. *Elementary Greek:* Miss Lang.
Semester I: elements of grammar with prose composition and selected reading from ancient authors and the *New Testament. Semester II:* the *Apology* and *Crito* of Plato; sight reading in class from Euripides' *Alcestis.*

101. *Herodotus and Tragedy:* Miss Lang, Mr. Lattimore.
Semester I: after a review of Attic Greek with Plato's *Menexenus* the reading is Book VI of Herodotus; prose composition is required. *Semester II:* Sophocles' *Antigone* and Euripides' *Medea;* a critical literary paper is required.

102b. *Homer:* Mr. Lattimore.
Several books of the *Odyssey* are read, and verse composition is attempted.

201. *Plato and Thucydides; Hesiod and Tragedy:* Mr. Dickerson.
Semester I: the Symposium and an abridged version of the Sicilian Expedition; prose composition is required. *Semester II: The Works and Days,* Euripides' *Bacchae* and Sophocles' *Oedipus Tyrannus:* a critical literary essay is required.

301. *Lyric Poets; Aeschylus and Aristophanes:* Mr. Lattimore, Mr. Dickerson.

Semester I: the early elegiac, iambic and lyric poets, including Pindar. *Semester II:* Aeschylus' *Agamemnon* and Aristophanes' *Frogs.*

203.* *Greek Literature in Translation:* Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

Final Examination: The Final Examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. Students may wish to attend the two weekly conferences which are designed to help in the preparation for the two examinations. An examination in one of the Allied Subjects may be substituted for one of these.

Honors Work: Honors may be taken either in conjunction with the advanced course or after its completion.

History

Professors: Arthur P. Dudden, PH.D., *Chairman*
Elizabeth Read Foster, PH.D., *Dean of the Graduate School*
Caroline Robbins, PH.D.
J. H. M. Salmon, M. LITT.
James Robert Tanis, TH.D., *Director of Libraries*

Associate Professors: Charles M. Brand, PH.D.
Mary Maples Dunn, PH.D.[1]
Barbara M. Lane, PH.D.[2]
Alain Silvera, PH.D.

1. On leave, 1969-70.
2. On leave, semester II, 1969-70.

Assistant Professor of the History of Science: Charles A. Culotta, PH.D.
Lecturer: Joseph A. Airo-Farulla, M.A.
Visiting Lecturer: Herbert Aptheker, PH.D.
Instructor: Margaret W. Masson, M.A.

Assistant Professor of Latin: Russell T. Scott, PH.D.
Instructor of Greek and Latin: Gregory W. Dickerson, M.A.

The History major is designed to enable the student to acquire a sense of historical perspective and an insight into historical method. Courses stress the development of ideas, cultures and institutions—political, social and economic—rather than the accumulation of data about particular events. The students are required to study some topics and periods intensively in order to learn the use of documentary material and the evaluation of sources. Extensive reading is assigned in all courses to familiarize majors with varied kinds of historical writing and, in most year courses, critical or narrative essays are required.

Requirements in the Major Subject: Students are usually expected to complete four units of history and two units of allied work, the selection of courses, planned in the spring of the sophomore year, depending upon the choice of the general fields of concentration and the special interest of the student. Two general fields, and one more concentrated, are elected from the list given below under Final Examination. Students must also elect work outside the fields of concentration.

Allied Work: A wide choice is open to majors in History; in general those in modern fields will find courses in the Social Sciences most suitable, while those in earlier periods may select, with the permission of the departments concerned, courses in Classical Studies, in Philosophy and Art. Intermediate or advanced courses in Literature and in Language may also serve to enrich the major offering.

201b. *History of England, 1670-1775:* Mrs. Masson.
The course will cover political, economic, social, religious, and intellectual aspects within a chronological framework, with an emphasis upon the changes that may be distinguished during the period.

202. *The Development of the United States of America:* Mrs. Masson.
A study of American national life in the nineteenth and twentieth

centuries, with emphasis upon the transformations altering the original Republic.

203. *Medieval European Civilization:* Mr. McKenna (Haverford).

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included.

204. *Europe, 1787-1848:* Mr. Silvera.

The French Revolution and the spread of revolutionary ideas and the idea of nationalism throughout the Napoleonic epoch comprise the first semester. Political and social history from the age of Metternich through the revolutions of 1848, including the effects of the Industrial Revolution, the growth of nationalism, and the varieties of socialism, will be covered in the second semester.

205. *Ancient History:* Mr. Scott, Mr. Dickerson.

The first semester is devoted to the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

Students should ordinarily not elect both 205 and 206.

206. *Introductory Seminars in European History:* Mr. Brand, Mr. Airo-Farulla.

This course is designed to introduce students to the research and development of the history of European civilization from the close of the ancient empire of Rome to the present era.

207b. *Latin America: Colonies and Revolutions:* Instructor to be appointed.

The conquest of South America, the transplantation and modification of European institutions, the colonial society, economy, and culture will be studied, followed by the revolutionary movements, and the establishments of new nations.

208. *Byzantine History:* Mr. Brand.

Political, institutional and cultural history of the Byzantine (Later Roman) Empire from the reforms of Diocletian and conversion of Constantine to the capture of Constantinople in 1453. Contacts with

Arabic, Turkish, Armenian, Slavic and West European peoples will be stressed.

[209. *Early American History, 1607-1789:* Mrs. Dunn.]

In the first semester, an investigation of the founding of the English colonies in North America and the West Indies, and their development in the seventeenth and early eighteenth centuries. In the second semester, emphasis will be placed on the causes and interpretations of the Revolution, the writing and ratification of the Constitution.

210. *Topics in the History of the Near East:* Mr. Silvera.

A survey of the European impact on the Ottoman Empire and the Arab world in the nineteenth and twentieth centuries. Among the topics to be studied will be the legacy of Islam, the imperial policies of Great Britain and France, the rise of Arab nationalism.

211b. *Medieval Mediterranean World:* Mr. Brand.

The Mediterranean, from Islamic to Italian domination, 10th-13th centuries: Muslim Spain and North Africa, Norman Sicily, the Italian commercial states, the Crusades, and Islamic-Byzantine-Western relations. Prerequisites: reading knowledge of French *or* German, and at least one semester of History 203 *or* 208.

212. *Renaissance and Reformation:* Mr. Salmon.

The course will consider the principal intellectual and religious movements in European History against their social background from the mid-fifteenth century to the mid-seventeenth century.

213a. *Minority Peoples in the United States:* Mr. Dudden.

An introductory program of investigations into the uneven results of acculturation, assimilation and emancipation. This course will encourage students to undertake biographies within selected social groupings, and it will also be directed toward the problem of achieving social biography in an aggregate sense. Numerous reports will be required as well as a semester's essay. For sophomores and juniors only.

216a. *Expansion of Europe, 1450-1650:* Mr. Airo-Farulla.

This course will present an overview of the period of European expansion. It will devote itself not only to the factors which led to the voyages of discovery, but also to the initial impact of European expansion on the non-Western world. Due to the wide scope of the course,

students will be encouraged to approach the subject matter in terms of their own interests.

220a. *History of Canada:* Mrs. Masson.

Canadian history from the seventeenth century to the present will be studied through reading and seminar discussions. The approach will be topical, treating such problems as the French-Canadian minority, imperial administration, political and economic growth, and the search for a national identity.

225. *Europe since 1848:* Mr. Spielman (Haverford).

The main political, social, and cultural developments of the European states since mid-nineteenth century. The first semester will extend to the first World War.

230. *A History of the Afro-American People:* Mr. Aptheker.

A two-semester course concentrating upon the experiences, concepts, organizations and struggles of the Black People in the United States. The time range will be from the commencing of the modern slave trade in the fifteenth century to the present era; attention will be given to the intertwining of this history with United States and world history.

[301. *Europe in the Twentieth Century:* Mrs. Lane.]

The first semester extends to the First World War and includes the military phases of the war; the second semester deals with the period from the Russian Revolution to the present.

302. *The Wars of Religion in France:* Mr. Salmon.

Economic and social explanations of the religious wars will be discussed in the context of the revolutionary political literature of both French Catholics and Protestants.

303. *Recent History of the People of the United States:* Mr. Dudden.

Studies of social change and response beginning with the late nineteenth century, together with considerations of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics and the main currents of thought and artistic expression. With permission, students may elect one semester only.

[304. *English History: the Victorians and Edwardians:* Miss Robbins.]

Round-table discussion each week of different aspects of activity in

the period; parliamentary reform; the Chartists; early labor movements and utopian socialists; the formation of the parliamentary labor party; trade unions; urban reform; welfare legislation; legal changes; ecclesiastical currents of opinion, the Oxford movement, the sects and freethinkers, the Catholic revival; Pugin and the Gothic revival; the Great Exhibition and popular taste, the social artists and the departure from realism; Ireland, the great famine, the Fenians, the rise of Sein Fein; the imperialists; prime ministers and foreign secretaries; the character and role of the monarchs.

305. *Italian Renaissance, 1200-1520:* Mr. Airo-Farulla.

Out of its medieval setting the evolution of the urban civilization of Northern Italy will be examined within its socio-economic as well as its cultural context. Not only Florence, but the other major city-states as well will be investigated in detail. The course will also devote ample time to the study of the leading figures of the period through Machiavelli.

[306. *The Enlightenment:* Miss Robbins.]

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law, and international relations.

307a. *The Spanish Civil War:* Mrs. Lane.

Focuses initially on Spain, then proceeds to broader problems of European intellectual and political history during the 1930's, using the Civil War to illustrate them.

308a. *Germany since 1890:* Mrs. Lane.

Traces the political, economic, social, and intellectual history of Germany from Bismarck's fall to the Adenauer era.

[310a. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change:* Mrs. Dunn.]

Emphasis will be placed on cultural conflict; the historical development of institutions such as church, hacienda, caciquismo; and on the nature and dynamics of the protracted revolutionary movement from

Hidalgo to Cardenas. Prerequisites: History 207, or Interdepartmental 305a, or by permission of the instructor. Offered in alternate years.

311b. *Colonial American History, 1607-1789:* Mrs. Mason.
The course will examine the founding of English settlements in North America, and the nature of colonial society, institutions and ideas, as well as their contribution to American culture.

314a. *History of Science:* Mr. Culotta.
& b. Historical changes in the concept "science" are examined. Emphasis is placed on the history of man's ideas about himself and the universe. The first semester covers the development of science from antiquity to the seventeenth century. The second semester continues into the twentieth century by developing select topics and their philosophical and social impact.

[320a. *Holland's Golden Age:* Mr. Tanis.]
The Dutch contribution to the modern world. A study of the cultural and intellectual life of the Netherlands in the seventeenth century, emphasizing the philosophical and theological thought of the period, against a background of general economic and political considerations. Brief attention will be given to the interplay of the artistic and literary contributions of the age.

[321b. *Revolution Within the Church:* Mr. Tanis.]
An investigation of those violent theological struggles within the Western Christian Church which have brought about reformation and schism from the sixteenth century to the present. Emphasis will be placed on the twentieth century.

399. *Comprehensive Program for Seniors.*

400. *Seminars in Black Studies:* Mr. Aptheker, Mr. Jones, Mr. Rollins.
(INT.) See Interdepartmental Course 400, page 138.

Courses at Haverford

41. *United States History—Jeffersonianism:* Mr. Wood.

42. *Afro-American History:* Mr. Wood.

51. *Regional History: Westward Expansion of the USA:* Mr. Bronner.

55. *European History: The Age of Louis XIV:* Mr. Spielman.

58. *Medieval History: The Plantagenets and Valois:* Mr. McKenna.

Comprehensive Program for Seniors: The comprehensive program for Seniors is designated by the course number 399. History 399a will serve as a catch-all number to represent a first-semester 300-level undergraduate course or a graduate course being taken by a senior as her senior seminar. History 399b will be comprised of second-semester tutorials.

The Final Examination consists of three parts—two in general fields of study and one in a specialized area. General fields will be offered in Medieval, Early Modern, and Modern European History, and American History. Special fields will be offered in Medieval, Renaissance, Reformation, French, British, Russian, German, Colonial American, Latin American, Afro-American, and United States History, and the History of Science, though not all of these every year. Students may choose an allied field for their special field of work with the permission of the departments concerned.

Honors Work—History 401: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1.

History of Art

Professor: Charles Mitchell, M.A., B. LITT., *Chairman*

Associate Professor: James E. Snyder, M.F.A., PH.D.[1]

Assistant Professors: Charles G. Dempsey, M.F.A., PH.D.[1]
Arthur S. Marks, PH.D.

Lecturer: John David Summers, PH.D.

Artist in Residence: Fritz Janschka, *Akad. Maler*

Assistant: Pieter Biesboer, *Hist. Art. Cand.*

Curator of Slides: Carol W. Carpenter, A.B.

The Department regularly offers an introductory course (involving some studio work), a series of general intermediate courses and more

1. On leave, 1969-70.

concentrated advanced half-courses, and instruction on special topics to majors in their senior year. The program is open also to undergraduates of Haverford College.

Further studio work is also available, either as free studio without credit or on a pass-fail basis, without credit, after two semesters of assigned and supervised work. Students who choose the latter option and are awarded a pass may, by permission of the Resident Artist, take one unit of studio work for credit, this being an elective project which will not count towards the major in History of Art.

Requirements in the Major Subject: At least four units of course-work in art-history, normally including Art 101 and always one unit of advanced course-work, together with two units of allied work. Intermediate courses with supplementary work may sometimes be counted as advanced at the discretion of the Department.

Students contemplating a major in History of Art are strongly advised to consult the Department as early as possible in their College careers.

Allied Subjects: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* The Department.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from medieval to modern times. Studio work, two hours weekly.

201. *Medieval Art:* Mr. Snyder.

Select topics and works from the fourth to the fourteenth century.

202. *Renaissance Art:* Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art:* Mr. Summers.

European art from the sixteenth to the early eighteenth century.

204. *Modern Art:* Mr. Marks.

European art from the late eighteenth to the twentieth century.

311b. *Aspects of Medieval Art:* Mr. Snyder.

An advanced course on selected topics.

312b. *Topics in Renaissance Art:* Mr. Mitchell.
Select topics to be studied in detail.

313a. *American Twentieth Century Sculpture:* Mr. Summers.

314a. *Cubism:* Mr. Marks.

Comprehensive Conferences: Members of the Department hold regular conferences with Senior Majors on their special subjects.

Final Examination: This is in three parts, each of three hours:
1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special topic.

Honors Work: Offered to suitable students on invitation of the Department.

History of Religion

Professor: Howard C. Kee, PH.D., *Chairman*
Director of Libraries and Professor of History:
James R. Tanis, TH.D.
Associate Professor of Philosophy: Jean A. Potter, PH.D.

At Haverford:

Associate Professor of Religion: Richard Lumen, PH.D.
Assistant Professor of Religion: J. Bruce Long, PH.D.
Visiting Lecturer in Religion: Samuel Tobias Lachs, PH.D.

The History of Religion major concentrates on the historical study of the religious traditions which have contributed most to shaping the culture of the West: The Religion of Israel, Judaism and Christianity. The student is expected to achieve facility in critical analysis of the primary sources of these traditions and in tracing their development against the background of the cultural situations in which they arose and matured.

Requirements in the Major Subject: At least four courses in History of Religion, of which three must be in the history of Judaism or Christianity and one in another religious tradition (e.g. Hinduism or Buddhism). Two courses in allied fields are also required.

The normal pattern for the major consists of one introductory course (100 level), two intermediate courses (200 level or Series 20 at Haverford), and two advanced half courses or a year seminar (300 level or Series 40 at Haverford). Students in advanced courses who are majoring in History of Religion are required to demonstrate a working knowledge of the language appropriate to their field of concentration: Hebrew for the Religion of Israel or Judaism, Greek for New Testament or Early Christianity, Latin for Medieval Christianity, German for the Reformation Period.

Allied Subjects: Philosophy, History, History of Art, Archaeology.

101a. & b. *The Religion of Ancient Israel and Early Judaism:* Mr. Lachs. (Religion 19, 20 at Haverford.)

The study of the historical development of the Bible against the background of the ancient Near East; the rise of Judaism in the post-exilic period. Early Rabbinic thought and institutions. Either semester may be taken separately as a half course.

102. *The New Testament and Early Christian Literature:* Mr. Kee. (Religion 21, 22 at Haverford.)

The background of Christianity in Judaism and the Roman world; the life of Jesus. The spread of Christianity under Paul and the beginnings of the church as an institution within the Roman Empire; the writings of the Apostolic Fathers.

207a. *Jesus and the Gospel Tradition:* Mr. Kee.

Historical sources for the life of Jesus; the varying interpretations of Jesus in the gospel tradition; the rise of critical method for evaluating the sources.

208b. *Paul and the Rise of Gentile Christianity:* Mr. Kee.

A detailed analysis of the letters of Paul, with special reference to the interpretation of Christianity in the Roman world.

210b. *Medieval Philosophy:* Miss Potter. (See Philosophy 210b.)

301a. *Gnosticism:* Mr. Kee.

The antecedents of Gnosticism in the Hellenistic world. Theories about the rise of gnosticism. A study of the primary gnostic documents.

302b. *Jewish Antecedents of Early Christianity:* Mr. Kee.

The so-called intertestamental literature, with special attention to the apocalyptic and wisdom writings, including the Dead Sea Scrolls.

[303a. *Hellenistic Religions and Early Christianity:* Mr. Kee.]

The mystery religions, wisdom speculation in Judaism; Philo's synthesis of revelation and reason; Hellenistic elements in the New Testament.

[303b. *Readings in the Greek New Testament:* Mr. Kee.]

An analysis of the literary forms and leading ideas of selected New Testament writings.

[321b. *Revolution Within the Church:* Mr. Tanis. (See History 321b.).]

At Haverford:

Religion 25, 26. *Religious Traditions in India:* Mr. Long.

Religion 45. *Seminar in Western Religious Thought: The transformation from late classical to medieval culture:* Mr. Lumen.

Courses in Allied fields:

Philosophy 350d. *The Ontological Argument:* Miss Potter.

Philosophy 350e. *The Problem of "the Other:"* Mr. Ferrater-Mora.

History 208. *Byzantine History:* Mr. Brand.

History 212. *Renaissance and Reformation:* Mr. Salmon.

Final Examination: The final examination is in three parts:

1. An examination in the history of Israel.
2. An examination in the beginnings of Christianity, including the background in Judaism and the transition to Gentile culture.
3. A special examination on the period, or theme, or major figure in which the student has concentrated.

Italian

Lecturers: Nancy Howe, M.A.
Nicholas Patruno, M.A.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior year in Italy or to study in approved summer schools in Italy or in the United States.

Requirements in the Major Subject: Italian 001, 101, 201, 202 and at least one advanced course. For students who enter College with Italian, proper substitutions will be made. In all courses students are urged to to use tapes available in the Language Laboratory.

Allied Subjects: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests.

001. *Italian Language:* Miss Howe, Mr. Patruno.
A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week and is conducted entirely in Italian.

101. *Intermediate Course in the Italian Language:* Miss Howe.
Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c.* *Dante in English Translation.*]
The *New Life* and *Divine Comedy.*

[103c.* *Literature of the Italian Renaissance in English Translation.*]
From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature:* Mr. Patruno.
Reading and explanation of texts, with a study of literary history; conducted in Italian.

202. *Dante:* Mr. Patruno.

The *Vita Nuova* and *Divina Commedia,* with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language.*]

Advanced work in composition.

303. *Italian Literature of the Rinascimento:* Miss Howe.

[304. *Italian Literature of the Romantic Period.*]

[305. *Twentieth-Century Italian Literature:* Miss Howe.]

Junior Year Abroad: Students approved by the Department and the Dean may be recommended for the Junior year in Florence under the auspices of the Smith College Group.

Final Examination: The Final Examination is in three parts:

1. The Italian Language: ability to understand and speak Italian, as demonstrated by an oral commentary on a literary text.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Medieval, Renaissance, Romantic or Modern period.

Honors Work: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

Professor: Agnes Kirsopp Michels, PH.D., *Chairman*

Associate Professor: Myra L. Uhlfelder, PH.D.

Assistant Professor: Russell T. Scott, PH.D.

Instructor: Gregory W. Dickerson, M.A.

The major in Latin is planned to give the students familiarity with the most important works of Latin literature and with the Roman contribution to the post-classical world.

Requirements in the Major Subject: Latin 101 or 102, 201 and either 301 or 302. 203a is a prerequisite for Honors work, and students who plan to teach are strongly advised to take this course.

Allied Subjects: Greek, History, Classical and Near Eastern Archaeology, History of Art, History of Religion, Philosophy, and any modern literature.

001. *Elementary Latin:* Miss Uhlfelder, Mr. Dickerson.
Basic grammar with composition and selected readings from Latin authors in the first semester. In the second semester selected readings from prose authors and from Vergil's *Aeneid,* with exercises in composition. Students who have had two years of Latin in school may enter the course in the second semester. Those who complete the course satisfactorily will be eligible to take Latin 101 or 102.

101a. *Latin Literature:* Mr. Dickerson.
A play of Plautus, and selections from the poems of Catullus and the *Eclogues* of Vergil.

101b. *Latin Literature:* Mrs. Michels.
Selections from Livy, Book I, and from Horace's *Odes.*

102a. *Readings in Latin Literature:* Mr. Scott.
Readings from prose authors, Catullus, and the *Eclogues* of Vergil, with special attention to problems of language, for students who need a review of basic grammar.

102b. *Readings in Latin Literature:* Miss Uhlfelder.
Selections from Livy, Book I, and from Horace's *Odes.*

201a. *Horace and Ovid:* Mr. Scott.

Reading from the *Satires* and *Epistles* of Horace, and from the *Fasti* and *Metamorphoses* of Ovid.

201b. *Latin Literature of the Silver Age:* Mrs. Michels.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202. *Medieval Latin Literature:* Miss Uhlfelder.

The reading includes selections from important writers from the late Roman Empire to the thirteenth century. This course may be taken either as a half or as a whole unit. Students who have not taken Latin 101 or 102, but wish to take Latin 202 as an elective or allied course, should consult the instructor.

203a. *Latin Style:* Mrs. Michels.

A study of Latin prose style, based on the reading of prose authors, with exercises in composition, and of Latin metrics with practice in reading aloud.

[301a. *Livy and Tacitus:* Mr. Scott.]

[301b. *Vergil's Aeneid:* Mrs. Michels.]

302a. *Lucretius:* Mrs. Michels.

302b. *Cicero and Caesar:* Mr. Scott.

Senior Conferences: In preparation for the Final Examination, seniors will meet regularly with members of the Department for discussion of their reading in Latin literature.

Final Examination:

1. Latin Sight Translation. This examination will be offered in September, February, and May. The examination must be passed by all Latin majors.
2. Latin Literature. This field is required of all Latin majors. Two examinations will be given, one based on a fuller reading list for students who are concentrating all their time on Latin, the other for students who are taking a double major or a third examination in another department.

Honors Work: Honors work in either classical or medieval Latin or in

Roman history is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

Professors: John C. Oxtoby, M.A., *Chairman*
Frederic Cunningham, Jr., PH.D.

Associate Professor: Ethan D. Bolker, PH.D.

Assistant Professor: Martin Avery Snyder, PH.D.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study.

Requirements in the Major Subject: At least 4½ courses including Mathematics 101, 201, 301, 303a, or equivalent.

Allied Subjects: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Calculus, with Analytic Geometry:* Mr. Bolker, Mr. Snyder.
Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry; the fundamental theorem, its role in theory and applications.

201. *Intermediate Calculus and Linear Algebra:* Mr. Cunningham.
Vectors, linear transformations, functions of several variables, partial derivatives, multiple integrals, line integrals, infinite series, Taylor's formula, differential equations.

220c. (INT.) *Introduction to Automatic Computation:* Mr. Snyder and members of several Departments.
Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all view-

points than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory per week. Prerequisite: Mathematics 101 or the equivalent.

See Interdepartmental Course 220c, page 137.

301. *Advanced Calculus:* Mr. Oxtoby.

The classical theory of real functions, based on a construction of the real number system; elements of set theory and topology; analysis of Riemann integral, power series, Fourier series and other limit processes. Prerequisite: Mathematics 201.

303a. *Introduction to Abstract Algebra:* Mr. Cunningham.

Groups, rings, and fields and their morphisms. Prerequisite: Mathematics 201.

303b. *Topics in Algebra:* Mr. Bolker.

[304b. *Theory of Probability with Applications.*]

Probability in discrete sample spaces, stochastic independence, Laplace Limit Theorem, Poisson distribution, random walk, and recurrent events—with applications to physics and statistics.

[306b. *Number Theory:* Mr. Bolker.]

Prerequisite: Mathematics 303a.

[307. *Numerical Analysis:* Mr. Snyder.]

Prerequisite: Mathematics 201.

[308. *Introduction to Applied Mathematics:* Mr. Snyder.]

Interdependence of mathematics and scientific problems; vectors, tensors, matrices, ordinary and partial differential equations, eigenfunction expansions; complex variables and transform techniques. Prerequisite: Mathematics 201.

310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311a. *Differential Equations:* Mr. Oxtoby.]

General methods, existence theorems, linear equations and Wron-

skians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 201.

[312b. *Topology:* Mr. Cunningham.]
Prerequisite: Mathematics 301 or 303a.

Final Examination: The Final Examination consists of three parts, which may include an oral presentation or a problem set as well as one or more written examinations.

Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.

Music

Professor and Director of Chorus:
Robert L. Goodale, A.B., B.MUS., A.A.G.O., *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor, M.A.[1]

Associate Professor: Isabelle Cazeaux, PH.D.

Visiting Lecturer: John H. Davison, PH.D.

Assistant: Myrl Hermann, M.A.

Director of Orchestra: William H. Reese, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the department offer for one unit of academic credit a year of voice or instrument lessons, the unit of credit will include the lessons and also a recital or proficiency test arranged by the department.

1. On leave, semester I, 1969-70.

The unit of credit will count as elective work and will not be counted toward the major.

A sequence of lessons (voice or instrument) approved by the department, of a year or more, at the request of the student, will appear on her transcript.

Requirements in the Major Subject: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group. Equivalent courses at Haverford will not be accepted for the major.

Allied Subjects: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Miss Cazeaux, Mme. Jambor, Mr. Goodale.

A comprehensive survey, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *Romantic Music:* Miss Cazeaux.

A concentrated study of selected works of representative composers of the Romantic period and a historical treatment of the music of the age. Prerequisites: Music 101 and 102, or permission of the instructors.

202. *Advanced Theory and Analysis:* Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

[203a. *Bach:* Mme. Jambor.]

Prerequisite: Music 101 or its equivalent.

203b. *The Classical Period:* Mme. Jambor.
Prerequisite: Music 101 or its equivalent.

205a. *Musical Criticism:* Miss Cazeaux.
Prerequisite: Music 101.

301a. *Music of the Twentieth Century:* Mr. Goodale.
A survey of the music of the period and concentrated analysis of key works. Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently.

[301b. *Opera and Music Drama:* Miss Cazeaux.]
The evolution of opera from its origins to the twentieth century. Prerequisites: Music 101 and 102 or their equivalents.

302a. *Medieval and Early Renaissance Music:* Miss Cazeaux.
The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301.

302b. *Late Renaissance and Baroque Music:* Miss Cazeaux.
The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

303b. *Orchestration:* Mr. Goodale.
Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304b. *Interpretation of Music:* Mme. Jambor.
Interpretation of instrumental music of various ages. Members of the class will be invited to participate by performing. Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition:* Mr. Goodale.
This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.
Work in dictation, sight-singing and keyboard will be offered on an

extra-curricular basis. Music majors will be expected to take this course. It will also be open to other interested students.

Honors Work: Honors work is offered for students recommended by the Department.

Final Examination: The Final Examination consists of three parts with three-hour examinations in each.

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Bryn Mawr College Chorus combines with the Haverford College Glee Club both in rehearsals and in the presentation of programs. Several major choral works from different musical periods are offered in concerts during the course of the year.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged. The Department will be glad to assist in these arrangements.

Philosophy

Professors: Milton Charles Nahm, B. LITT., PH.D., *Chairman*
José Maria Ferrater Mora, *Lic. F.L.*
George L. Kline, PH.D.
Isabel Scribner Stearns, PH.D.

Associate Professor: Jean A. Potter, PH.D.

Lecturers: Mary Patterson McPherson, PH.D.
George E. Weaver, Jr., M.A.

Assistants: Henry Beitscher, A.B.
Anne Turley, A.B.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The courses in Greek Philosophy and Modern Philosophy provide the major students with a common background, training and language.

Further study offers additional historical perspective, as well as insight into methodology and systematization. Training in the techniques of logic is afforded, and such studies as ethics, aesthetics and philosophy of science show the relations of philosophy to art, religion, science and mathematics. The advanced student brings the information and techniques that she has acquired to bear on new areas of philosophy and on philosophical problems of current interest. Opportunity for independent work is provided within or in conjunction with several such advanced courses.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

Requirements in the Major Subject: Students majoring in Philosophy acquire the necessary historical background by taking the semester courses in Greek and Modern philosophy and by electing one of the following: either study of two major thinkers in different historical periods (Plato or Aristotle and Kant or Hegel) or study of one major figure and either medieval philosophy or nineteenth century German

philosophy. The systematic requirement is met by the semester course in Logic and by any two of the following semester courses: Ethics, Aesthetics, Philosophy of Religion, Philosophy of Science. One semester of advanced work is to be chosen from the 300 level courses. (Note that 300 courses followed by the letters "d" and "e" are given for six weeks only. To receive credit for a semester's work, either two such courses must be taken in the same semester or one such course followed by six weeks of independent work approved by the Department.)

Allied Subjects: Biology, Chemistry, Economics, English, History, History of Art, Mathematics, Music, Physics, Political Science, Psychology, classical and modern literatures, and certain courses in Anthropology, History of Religion and Sociology.

101a. *Greek Philosophy:* Members of the Department.

A study of the origins and development of philosophic thought in Ancient Greece, with particular emphasis on the major works of Plato and Aristotle. The course will be repeated in the second semester as 101b.

201a. *Modern Philosophy:* Members of the Department.

A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a. The course will be repeated in the second semester as 201b.

202a. *Plato:* Miss Stearns.

A detailed study of some of Plato's later dialogues.

203b. *Aristotle:* Mr. Ferrater Mora.

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being and the Prime Mover.

210b. *Medieval Philosophy:* Miss Potter.

The history and development of medieval philosophy from its origins in classical and Patristic thought through the fourteenth century.

215b. *Kant:* Mr. Ferrater Mora.

A close examination of some central themes in the *Critique of Pure Reason.*

[216a. *Hegel.*]

[217b. *Nineteenth Century German Philosophy.*]

250a. *Logic:* Mr. Weaver.
An introduction to modern mathematical logic, with emphasis on both the semantic and the combinatorial aspects of reasoning.

260b. *Ethics:* Miss Potter.
A close study of classical texts, with attention to such problems as responsibility, moral values, and principles of moral decision.

261a. *Aesthetics:* Mr. Nahm.
Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism.

[262a. *Philosophy of Religion.*]

[264b. *Philosophy of Science.*]

301b. *Recent Metaphysics:* Miss Stearns.
The metaphysics of Mead, Bergson, Whitehead and related thinkers. This course may be taken to meet the major requirement in systematic philosophy.

302b. *Philosophy of Criticism:* Mr. Nahm.
The philosophy of criticism will be concerned with some of the problems in the criticism of art and fine art raised in the writings of some of the following writers: Plato, Aristotle, Longinus, Philostratus, Leonardo da Vinci, Dryden, Kant, Schiller, Nietzsche, Bergson, Croce, Coleridge and Bradley.

[303b. *Philosophy of History.*]

304a. *Russian Philosophy:* Mr. Kline.
A critical survey of major trends in Russian thought, from the eighteenth century through the Soviet period, with special attention to ethics and social philosophy.

[305b. *Contemporary Philosophy: Analytic.*]

[306b. *Contemporary Philosophy: Existential.*]

[307a. *Texts in Medieval Philosophy.*]

[309a. *The Concept of Time.*]

310b. *Logical Theory:* Mr. Weaver.

Various views on the nature of logic and the relationship between logic and philosophy. Prerequisite: Philosophy 250a.

Note: the following courses are of six weeks' duration and carry one-fourth unit of credit. To receive credit toward the degree or to meet the requirement for the Major in Philosophy, the student must elect within the same semester a second such course or pursue independent work equivalent to such a second course as approved by the Department.

350d. *The Ontological Argument:* Miss Potter (September-October)

Metaphysical, epistemological and logical aspects of several important formulations of the ontological argument for God's existence.

350e. *The Problem of "the Other":* Mr. Ferrater Mora (November-December).

An examination of the nature and types of inter-personal and social relations from the viewpoints of existential philosophy.

352d. *The Role of Mathematical Models in Science:* Mr. Weaver (February-March).

The structure and purpose of mathematical models in science with concrete examples from mathematical linguistics and automata theory.

352e. *Determinism and Freedom:* Mr. Kline (April-May).

The bearings of "hard," "soft" and "statistical" determinism on questions of individual freedom and responsibility.

Final Examination: The Final Examination consists of two written examinations and work done throughout the senior year in a seminar combined with tutorial sessions. One examination must be taken in the work of a major philosopher, the second in a systematic field, each to be chosen by the student at the end of her junior year.

The seminar emphasizes critical thinking on a central philosophic issue.

Honors Work: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

Professors: Rosalie C. Hoyt, PH.D., *Chairman*
Walter C. Michels, PH.D.
John R. Pruett, PH.D.
Assistant Professor: John R. Olson, PH.D.
Assistant: Edward F. Gardner, M.S.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

Requirements in the Major Subject: Physics 101, 201a, 202b, 302b, and 306a, and at least one and one-half units of advanced work, to be chosen from 301a, 303b, 304, 305c; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

Allied Subjects: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics:* Miss Hoyt, Mr. Michels.
A study of the principal phenomena of classical and modern physics in the light of the developments of the past seventy years. Three lectures and three hours of laboratory a week.

201a. *Electricity and Magnetism:* Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics:* Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics:* Mr. Olson.

Newtonian mechanics of particles and of rigid bodies, special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenomena; introduction to digital computer usage. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. *Atomic and Nuclear Structure:* Mr. Olson.

Development of quantum theory and wave mechanics with applications to atomic structure and spectroscopy. Nuclear structure models and reactions. Fundamental particles. Two hours of discussion a week. Prerequisite: Physics 303b (may be taken concurrently).

303b. *Thermal Properties of Matter:* Mr. Olson.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics:* Miss Hoyt.

The application of generalized mechanics to coupled systems and continuous media; electric, magnetic, and electromagnetic fields; radiation. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four hours a week. Prerequisites: Physics 201a, 202b and 301a (may be taken concurrently), Mathe-

matics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a.

305c. *Electronics:* Members of the Department.

Principles of solid state electronic devices and their applications to digital and analog computers and to other instruments. Four hours of laboratory a week. Prerequisite: Physics 201a (may be taken concurrently).

306a. *Unified Classical Physics:* Mr. Michels.

A general coverage of classical physics (including relativity and classical quantum theory) from a more mature point of view than is possible in earlier courses. The subject matter covered in Physics 201a, 202b, 301a, and 303b is integrated and extended in preparation for the Final Examination in the Major Subject. Two hours of discussion a week. Prerequisite: Physics 301a (may be taken concurrently).

Final Examination: The Final Examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students).

Honors Work: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Gertrude C. K. Leighton, A.B., LL.B., *Chairman*
Melville T. Kennedy, Jr., PH.D.[1]

Dean of the College: Dorothy Nepper Marshall, PH.D.

Associate Professor: Charles E. Frye, PH.D.

Assistant Professors: Marc H. Ross, PH.D.[1]
Stephen Salkever, PH.D.

Lecturers: William E. Steslicke, PH.D.
Roger Tauss, M.A.

Visiting Lecturer: Bryant Rollins, A.B.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

Requirements in the Major Subject: Students majoring in Political Science must take a minimum of four units in the major and two in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen from among the following: 201a, 203a, 204b, 205a, 206b, 207b, 209b. Students who are not majors in the Department may meet this prerequisite in the same way, or alternatively by completing one half unit of allied work and one half unit in Political Science chosen from the list of courses above. For required fields in the major, see page 122 under Final Examination.

Non-majors wishing to take a field in preparation for the final examination in Political Science must consult the chairman in advance of taking courses in the special field. With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

Allied Subjects: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Depart-

1. On leave, 1969-70.

ment, certain courses offered by the modern language departments may be accepted as allied subjects.

201a. *American National Politics:* Mr. Salkever, Mr. Tauss.

An examination of politics in the United States today. The focus is upon American values, the manner in which they are perpetuated, the institutions they support, the ways in which they do or do not facilitate political change, and the role they play in the organization and management of political and social conflicts.

203a. *Government and Politics in East Asia:* Mr. Steslicke.

A comparative examination of East Asian political systems with special emphasis on modern Japanese government and politics.

[204b. *Communism and Nationalism in Asia:* Mr. Kennedy.]

205a. *Government and Politics in Western Europe:* Mr. Frye.

A comparative analysis of the contemporary political systems of Great Britain, France and Scandinavia, with special reference to factors making for stable and effective democracy.

205b. *East Asian Foreign Policies:* Mr. Steslicke.

A comparative examination of the foreign policy-making process in modern China and Japan and a survey of contemporary problems and issues with special reference to Sino-Japanese relations.

206b. *Values, Science and Politics:* Miss Leighton.

Designed as a study of the discipline of political science, the course examines the philosophical, historical and scientific approaches to the political process. Illustrative problems are selected from the legal, international and comparative fields.

207b. *Government and Politics in Western Europe:* Mr. Frye.

A comparative analysis of the contemporary political systems of Germany, Italy, and the Soviet Union.

208a. *Introduction to Latin America:* Mrs. Marshall.

A comparative analysis of political systems of Latin America.

209b. *Western Political Philosophy:* Mr. Salkever.

A study of the fundamental problems of Western political thought. The writings of a small number of ancient and modern philosophers will be examined.

[210b. *The Soviet System:* Mr. Hunter (Economics 32 Haverford).]
See Interdepartmental Course 210b, page 137.

[212a. *Western Political Thought: Ancient and Medieval.*]

218a. *Urban Politics:* Mr. Tauss.

This course is concerned, in a cross-cultural framework, with the factors leading to the rise of cities, an examination of the diverse groups which comprise urban populations, the various forms of political organization found in urban areas, and the political and social problems of the city in contemporary society. Material will be drawn from cities in Africa, Asia and Latin America, as well as the Western European and American experience.

219b. *American Constitutional Law:* Mr. Salkever.

An analysis of some of the basic principles and processes of American public law. Attention will be centered on decisions and opinions of the Supreme Court as they relate to the formation of public policy and to the value patterns of American liberal democracy.

221a. *International Law:* Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

225a. *Methods in Sociological and Political Science Research:* Mr. Clawar.
(See Sociology 225a on page 132.)

230b. *Political Behavior:* Mr. Tauss.

The focus of this course is on the individual in politics. Several different approaches to the study of political behavior will be considered. Among the areas studied will be political socialization, role theory, political personality, public opinion and political behavior, and theories of political change.

231. *Black Participation in American Politics:* Mr. Rollins.

301a. *Law and Society:* Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, property and government are discussed.

302b. *Law, Policy and Personality:* Miss Leighton.

Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken: Political Science 219b, 301a, or 313b, or with the permission of the instructor.

[303a. *Problems in International Politics:* Mr. Kennedy.]

303b. *Political Leadership in Industrialized Societies:* Mr. Steslicke.

A comparative examination of political leadership in industrialized societies and a critical survey of the more recent scholarly literature dealing with political leadership and public policy (special emphasis will be placed on problems of political leadership in the United States, Great Britain and Japan).

304b. *West European Integration:* Mr. Frye.

An analysis of postwar moves toward integration in Western Europe, with special emphasis upon the factors behind integration and upon the impact of integration upon member societies.

[307a. *Modern Germany:* Mr. Frye.]

[308a. *American Political Theory.*]

[309b. *Selected Topics in Modern Political Thought:* Mr. Frye.]

310a. *Problems in Comparative Politics:* Mr. Frye.

Analysis of different approaches to the systematic study of politics and their application to selected problems in comparative politics including modernization.

311a. *Theory and Practice in Political Philosophy:* Mr. Salkever.

An examination of the relationship between speculative theory and practical (normative) principles. Readings will be drawn from three broad philosophic traditions: empiricist (Locke and Hume), historicist-existentialist (Marx, Nietzsche, Bergson) and classical (Plato and Aristotle). Prerequisite: Political Science 209b, or either Philosophy 101 or 201.

312a. *Political Modernization in China and Japan:* Mr. Steslicke.

A critical examination of the concept of "political modernization"

and a survey of the relevant scholarly literature with particular reference to the experience of China and Japan during the past century.

[313b. *Problems in Constitutional Law.*]

[315b. *American Bureaucracy.*]

316b. *Urban Affairs:* Mr. Tauss.
Selected topics.

400. *Seminars in Black Studies:* Mr. Aptheker, Mr. Jones, Mr. Rollins.

(INT.) See Interdepartmental Course 400, page 138.

Courses at Haverford

216a. *African Civilization:* Mr. Glickman (Social Science 38 Haverford).
A study of political ideologies, systems and processes in new states. The impact of the West on traditional societies, the growth and effects of nationalism and the problems of stability and popular government are emphasized.

220a. *International Politics and Foreign Policy:* Mr. Hansen (Political Science 25).

223a. *The American Political Process: President and Congress:* Mr. Waldman (Political Science 21).

225b. *Comparative Politics: Political Development:* Mr. Glickman (Political Science 24).

226b. *International Organization:* Mr. Hansen (Political Science 26).

227b. *American Political Theory:* Miss Shumer (Political Science 27).

228b. *Public Opinion, Private Interests and the Political System:* Mr. Waldman (Political Science 22).

229b. *Problems of Power and Politics in Contemporary America:* Miss Shumer (Political Science 28).

319a. *Comparative Politics and Political Theory: Research Seminar* (Socialism): Mr. Glickman (Political Science 53, 57).

Final Examination: The Final Examination consists of three written examinations, the first of which is a general examination in Political

Science and must be taken by all seniors majoring in the Department.

The second and third examinations each cover one of the four specialized fields listed below. At least three courses (one and one-half units of work) must be taken in each of the fields selected.

1. *Political Philosophy and Theory*
 Values, Science and Politics
 Western Political Thought: Hobbes to the Present
 Western Political Thought: Ancient and Medieval
 Political Behavior
 American Political Theory
 Selected Topics in Modern Political Thought
 The Problem of Power in Contemporary America (Haverford)
 Political Theory: Context of Public Policy (Haverford)
 The Nature of Contemporary Political Theory (Haverford)

2. *Politics and Law in American Society*
 American National Politics
 Metropolitan Government
 Constitutional Law
 Law and Society
 Law, Policy and Personality
 Urban Affairs
 The Political Process: Presidency and Congress (Haverford)
 Public Opinion in the Political System (Haverford)
 Public Policy: Civil Rights and Poverty (Haverford)

3. *Comparative Politics*
 Government and Politics in East Asia
 Communism and Nationalism in Asia
 Government and Politics in Western Europe
 Introduction to Latin America
 West European Integration
 Problems in Comparative Politics
 Modern Germany
 China and Japan: Problems of Modernization
 The Soviet System (Haverford)
 African Civilization (Haverford)
 Comparative Politics: Non-Western (Haverford)

4. *International Politics and Law*
 International Law
 Problems in International Politics
 Political Leadership in Industrialized Societies
 International Politics and Foreign Policy (Haverford)
 International Organization (Haverford)
 (With the consent of the Department, certain comparative courses may be counted in this field.)

Honors Work: Seniors admitted to Honors work prepare an independent research report (one unit of credit) under the supervision of a member of the Department. Weekly conferences are held. Field work is encouraged.

Psychology

Professors: Richard C. Gonzalez, PH.D., *Chairman*
Rachel Dunaway Cox, PH.D.

Visiting Professor: Larry Stein, PH.D.

Associate Professors: Robert S. Davidon, PH.D.
Matthew Yarczower, PH.D.

Assistant Professor: Earl Thomas, PH.D.

Visiting Lecturers: Robert E. Lana, PH.D.
Sandra Scarr, PH.D.

Lecturer: Erika R. Behrend, M.A.

Assistants: Lynn Douglass, A.B.
Donna Lewis, A.B.
Frank Wise, A.B.

The Department offers to the major student a choice between two plans of study, one a concentration in Experimental Psychology and the other a concentration in Social Psychology. In Experimental Psychology, the student is concerned with the analysis of individual behavior and its physiological basis under the controlled conditions of the laboratory. Sensory processes, motivation, emotion, learning, and intelligence are

treated in evolutionary perspective, and the relation of Psychology to the other natural sciences is emphasized. In Social Psychology, the student is concerned with the influence of society on the development of personality and with the psychological analysis of the behavior of man in society. The relation of Psychology to other social sciences is emphasized.

Requirements in the Major Subject: Psychology 101 and 202a are required of all students majoring in Psychology.

For concentration in Experimental Psychology: Psychology 201a, 201b, 301, 302, and one unit of work in an allied subject.

For concentration in Social Psychology: Psychology 205a, 205b, 305a, and 307a; two courses selected from Psychology 206a, 207b, 306b, 308b, and 309a; and one unit of work in an allied subject *or* in Experimental Psychology.

Allied Subjects: For concentration in Experimental Psychology—Biology, Chemistry, Physics, and Mathematics; for concentration in Social Psychology—Anthropology, Economics, Philosophy, Political Science, and Sociology.

101. *Experimental Psychology:* Mr. Gonzalez, Mr. Thomas, Mr. Yarczower.

The experimental study of behavior and its physiological basis. A survey of methods, facts, and principles: sensation, perception, motivation, emotion, learning, and thinking. Three hours of lecture and four hours of laboratory each week.

201a. *Animal Learning:* Mr. Gonzalez.

Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence. Three hours of lecture and individual laboratory research projects.

201b. *Human Learning:* Mr. Yarczower.

The experimental study of learning and memory in humans. Three hours of lecture and individual research projects.

202a. *Experimental Methods and Statistics:* Mr. Davidon.

Measurement, descriptive statistics, probability, association, testing of hypotheses, and the design of experiments. Three hours of lecture and two hours of laboratory each week.

205a. *Social Psychology:* Mr. Lana.
The psychological study of man in society.

205b. *Psychology of the Normal Personality:* Mr. Lana.
Survey of the major theories. Developmental, clinical and experimental evidence relating to the "normal" personality.

[206a. *Child Psychology:* Mrs. Cox.]
The development of the child from infancy to physical, intellectual, and emotional growth and learning in the family and the school. Three hours of lecture each week. Students do laboratory work in centers serving young children. Cooperating centers include the Thorne School, the city agencies for neglected children and nursery schools for disadvantaged children.

207b. *Psychology of Language:* Mr. D'Andrea (Psychology 22 Haverford).

301. *Physiological Psychology:* Mr. Thomas.
The physiological and anatomical bases of experience and behavior: sensory processes and perception, emotion, motivation, learning and cognition. The laboratory includes training in basic neurophysiological techniques such as lesioning, stimulating and electrical recording and the application by the student of the techniques to a behavioral problem in a research project. Three hours of lecture each week and individual research projects in the laboratory. (In exceptional cases, with permission of the Department, the first semester may be taken alone for credit.)

[302. *Advanced Comparative Psychology.*]

305a. *Perception:* Mr. Davidon.
Differentiation and organization of the perceived environment; orders of visual, auditory and tactual-kinesthetic function; perception and behavior. Three lectures each week, and individual projects in the laboratory, one-to-four hours per week.

306b. *Psychological Measurement:* Mr. Davidon.
Scale and test construction; evaluation of standardized tests; intelligence and the structure of abilities; trait assessment; educational, vocational and clinical application of tests. Demonstrations of tests in the laboratory. Three lectures and two hours of laboratory each week.

307a. *Communication, Propaganda, and Attitude Change:* Mr. Perloe (Psychology 37 Haverford).

308b. *Psychology of the Abnormal Personality:* Mrs. Cox.

Types and dynamics of abnormal adaptation, methods of investigation and approaches to treatment. Three hours of lecture each week. Students are placed for two to three hours a week as observers and program assistants in a variety of community agencies serving children or adults with organic or functional disorders.

309a. *Human Information Processing:* Mr. Rowe (Psychology 35 Haverford).

310a. & b. *Advanced Experimental Psychology:* Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

Senior Conferences: Members of the Department.

Weekly conferences, and, for selected students, seminars on special topics in preparation for the Final Examination.

Final Examination: The Final Examination consists of one general examination in either Experimental Psychology or Social-Personality and two specialized examinations in specific fields of Psychology. With the approval of the Department, an examination in an allied field may be substituted for one of the specialized examinations.

Honors Work: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for one of the specialized examinations.

Russian

Professor: Frances de Graaff, PH.D., *Chairman*

Assistant Professors: Irene Nagurski, PH.D.
Ruth L. Pearce, PH.D.

Instructors: Frederick Schulze, M.A.
Helen Segall, B.S.

Professor of Philosophy: George L. Kline, PH.D.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 001, 101, 202, the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Russian 001, 101, 200, 201 and one advanced course. Also Russian 203 or History 43-44 (History of Russia) or Economics 210b. If a student offers Russian for entrance, Russian 203 or History 43-44 may be substituted.

Allied Subjects: Economics 210b, History 43-44 (strongly recommended), 301; any language or literature, History of Art, Music, Philosophy.

001. *Elementary Russian:* Miss de Graaff, Mrs. Pearce.
The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian:* Mrs. Pearce, Miss Nagurski.
Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language:* Mrs. Segall.

201. *Readings in Russian Literature:* Miss Nagurski.
Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian.*]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

203.* *Russian Literature in Translation:* Miss Nagurski.

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment,* Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. *Russian Poetry of the Nineteenth Century:* Miss de Graaff.]

[302. *Pushkin and His Time:* Miss de Graaff.]

303. *Russian Literature of the Twentieth Century:* Miss de Graaff.

[304. *Social Trends in Nineteenth-Century Russian Literature:* Miss de Graaff.]

Final Examination: The Final Examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

Honors Work: Honors work is offered to students recommended by the Department.

Sociology

Professor: Eugene V. Schneider, PH.D., *Chairman*

Assistant Professor: Judith R. Porter, PH.D.[1]

Visiting Lecturer: Clifton R. Jones, PH.D.

Lecturers: Stanley Clawar, A.B.
Richard K. Fenn, TH.M.
Martin Wenglinsky, M.A.

Assistant Professors of Social Work and Social Research:
Sally Hollingsworth, M.S.S.
Dolores Norton, M.S.S.

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one of the requirements may be filled at Haverford, and that other courses are open for the major work.

Requirements for the Major Subject: 102a & b, 225a or 31 (Haverford), 302a and one additional unit and a half of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford.

Allied Subjects: Anthropology, Economics, Social Psychology, Political Science, History and Mathematics.

102a. *Introduction to Sociology:* Mr. Wenglinsky.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Emphasis will be placed on culture, social system and personality and their interrelationships. Concrete applications of sociological analysis will be examined.

1. On leave, 1969-70.

102b. *American Social Structure:* Mr. Schneider.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

202a. *Social Welfare and the Individual and His Environment:* Mrs. Norton.

This course will examine the effect of various physical, economic, cultural and racial environments on the development of the individual. It will then explore the social work and social welfare approaches that evolved to meet these varieties of human behavior. The class will be asked to help develop more effective plans of social welfare to meet present day societal needs.

202b.* *Social Problems and Social Work Practice:* Mrs. Hollingsworth.

Social breakdown and its impact on the individual, with particular reference to the interaction between the individual and the community in which he lives. Various methods of social work intervention will be examined; a variety of therapeutic approaches to individuals and small groups; community organization and social planning. Problems studied will include: health, housing, education, racism, poverty and income maintenance, deprivation and community mental health.

[205b. *Social Stratification:* Mr. Schneider.]

Examination of theoretical and methodological problems in the field of stratification, with special reference to the relationship of class structure to the culture and to personality systems.

207a. *Race Relations:* Mr. Fenn.

An examination of theories of prejudice and attitude change. The structure of the minority community and its relationship to the majority group will be discussed, with major emphasis placed on Negro-white relations in the United States. Prerequisite: Sociology 102a or consent of instructor.

208b. *Personality and Social Structure:* Mr. Schneider.

An analysis of the relationships between personality, both deviant and non-deviant, and major elements of the social structure and culture. Several theories linking personality, social structure and culture will be considered.

209b. *Sociology of Religion:* Mr. Fenn.

Analysis of the interrelationship between religion and society, drawing upon the works of major social theorists. Emphasis will be placed on the connection between religious systems and secular culture and social structure, including the role of religion in social change, secular values and personality systems. Prerequisite: Sociology 102a or consent of instructor.

[212b. *Sociology of Poverty:* Mrs. Porter.]

An analysis of the causes and effects of poverty in the United States. Issues covered will include the culture of poverty, the effects of poverty on institutions like the family, and the government poverty programs. Prerequisite: Sociology 102a.

215a.* *Fieldwork in Urban Studies:* Members of the Department.
& b. A multi-disciplinary approach to the urban situation as it is manifested through the public school system. Approximately three hours per week are dedicated to individual in-school instruction with Junior High School students. A weekly seminar includes several outside discussions and offers varying perspectives on the problems involved.

220a. *Political Sociology:* Mr. Wenglinsky.

A study of the major elements in and affecting the official processes for societal decision-making in industrial society, with special attention to the problems of developing and maintaining a democratic system.

222b. *Sociology of Literature:* Mr. Wenglinsky.

Literature as a social experience, a social product and an indicator of societal processes. Topics will include the relation of genres to societal characteristics; sociology of literary circles and the literary life; literature as a form of knowledge; literature and politics; literature (and films) in an industrialized and rationalized society.

225a. *Methods of Sociological and Political Research:* Mr. Clawar.

Techniques and methods of research used in certain areas of sociology and political science. Topics covered include research design and process, the construction of schedules and questionnaires, techniques of interviewing and participant observation, statistical manipulation of data, sampling problems, table and chart construction analysis, and basic use of the computer and associated machinery.

227b. *Sociology of Occupations and Professions:* Mr. Wenglinsky.

A study of the dominant public responsibilities taken on by individuals, and the kinds and qualities of lives implied by these occupations. Topics will include bureaucratic, self-administered, professionalized and disreputable occupations and their relation to the educational and stratification systems and to such concepts as authenticity and alienation.

230a. *The Negro Family in the United States:* Mr. Jones.

A sociological analysis of the Negro family; its evolution as an institution; its function as an agency of social control and personality development.

302a. *Social Theory:* Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers. Among the writers examined are Marx, Weber, Durkheim, Freud, Pareto, Marcuse, Parsons.

400. *Seminars in Black Studies:* Mr. Aptheker, Mr. Jones, Mr. Rollins.
(INT.) See Interdepartmental Course 400, page 138.

Courses at Haverford

The following is a selection of the courses offered at Haverford. Majors in Sociology who wish to enroll in courses other than those listed here should consult with the Department of Sociology at Bryn Mawr.

22. *Analysis of Interpersonal Behavior:* Mr. Hare.
23. *Social Disorganization and Deviant Behavior:* Mr. Hohenstein.
24. *Seminar in Contemporary Social and Political Issues:* Mr. Wehr.
25. *Social Conflict and Nonviolent Resolution:* Mr. Wehr.
26. *Theories of Conflict:* Mr. Borodkin.
28. *Sociology of Nonviolence:* Mr. Hare.
31. *Social Research and Analysis:* Mr. Hohenstein.
32. *Data Processing and Computer Techniques:* Mr. Hare.
36. *Mathematical Methods in Sociology:* Mr. Borodkin.
44. *Sociology of Knowledge:* Mr. Hohenstein.

Final Examination: The Final Examination for students majoring in Sociology is in two parts:

1. General Sociology.
2. A special field in Sociology, such as Social Theory, Race Relations,

Sociology of Religion, Industrial Sociology, Social Disorganization. An allied field may be substituted for this special field.

Honors Work: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

Spanish

Professor: Joaquín González Muela, *D. en F.L.*

Associate Professor: Willard Fahrenkamp King, PH.D., *Chairman*

Dean of the College: Dorothy Nepper Marshall, PH.D.

Assistant Professors: Eleanor Krane Paucker, PH.D.
Phyllis Turnbull, *D. en F.L.*

Visiting Lecturer: Enrique Tierno-Galván, *D. en F.L.*

Professor of Philosophy: José María Ferrater Mora, *Lic. F.L.*

The major in Spanish offers work in both language and the literature of all centuries, with emphasis on those periods when Spain and Spanish America have made their maximum contributions to Western culture. It includes a two-year history of Spanish literature, followed by specialized advanced courses dealing more intensively with individual authors or periods of special interest. Students may take an advanced course at Haverford if it contributes significantly to their special program. In certain cases, with the approval of the Department and the Dean of the Graduate School, advanced students may also take one graduate course.

One course is devoted to training in written and spoken Spanish. It is recommended that students supplement their course work by spending the Junior year in Spain or Spanish America, studying in the summer at the *Centro* in Madrid, or living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 001 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: The normal course sequence in the major is 101a, 101b, 201a, 201b, 202a, 202b, and at least four semesters of advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a and 202b. First-year students of literature may find it advisable to begin their study with 101a or 202a.

Allied Subjects: Any other language or literature, Anthropology, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology.

001. *Elementary Spanish:* Mrs. Paucker, Miss Turnbull.
Grammar, composition, oral and aural training, readings on the Spanish and Spanish-American background.

003. *Intermediate Spanish:* Mr. González Muela.
Intensive grammar reviews, exercises in composition and conversation, selected readings from modern Spanish texts.

[101a. *Modern Spanish Literature (from 1700 to the present):* Mrs. King.]
& b. The development of Spanish literature during the eighteenth, nineteenth and twentieth centuries; special attention is given to the literature of social criticism and the Generation of 1898. Oral expression and practice in writing are emphasized.

201a. *Spanish Literature from the Poema del Cid to 1700:* Mrs. King.
& b. Medieval, Renaissance and Baroque literature; special attention is given to the picaresque novel, mystical poetry, the development of the *comedia nueva,* and the work of Cervantes.

202a. *Spanish Readings and Composition:* Mr. González Muela, Miss Turn-
& b. bull.
Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation, and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

203a. *Spanish American Literature—The Political and Social Revolution:* Mrs. Paucker.
The development of social and national consciousness in prose writers from Sarmiento to the present.

203b. *Spanish American Literature—The Literary Revolution:* Mrs. Paucker.
Poetry and prose from the Modernismo to the present; special attention is given to Rubén Darío, Neruda, Borges and Cortázar.

302a. *Medieval Spanish Literature:* Miss Turnbull.
The Castilian epic, lyric poetry and narrative prose from the Poema del Cid to Jorge Manrique.

303a. *The Modern Novel in Spain:* Mr. Tierno-Galván.
The development of the Spanish narrative from the Generation of 1898 to the present; special attention is given to Unamuno, Miró, Cela, and Goytisolo.

303b. *Modern Spanish Poetry:* Mr. González Muela.
Spanish poetry from Modernismo to the present: Machado, Jiménez, García Lorca, Hierro, and others.

[304a.* *Drama of the Golden Age.*]
Baroque structure and Counter-Reform thought in representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón, and other outstanding dramatists.

[304b. *Cervantes.*]
The development of Cervantes' art and thought, with major emphasis on *Don Quixote.*

Final Examination: The Final Examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination on a period of Spanish literature chosen by the students (when a course in comparative literature is offered, students may, with departmental approval, substitute such a course for this final examination).
3. A three-hour written examination on a special topic in Spanish literature chosen by the students in consultation with the Department.
An examination in an allied subject may be substituted for one of the two written examinations.

Honors Work: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Courses

The following courses are given by two or more departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them. Also listed are courses in a single discipline, such as Linguistics, which are of special importance to several departments.

[210b. *The Soviet System:* Mr. Hunter (Economics 32 Haverford).]

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or a unit of second-year work in Political Science; or History 206.

214a. *History of Science:* Mr. Culotta.

& b. Historical changes in the concept "science" are examined. Emphasis is placed on the history of man's ideas about himself and the universe. The first semester covers the development of science from antiquity to the seventeenth century. The second semester continues into the twentieth century by developing select topics and their philosophical and social impact.

220c. *Introduction to Automatic Computation:* Mr. Snyder and members of several Departments.

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory per week. Prerequisite: Mathematics 101 or the equivalent.

[308. *Introduction to Linguistics:* Miss Dorian.]

Introduction to the study of language: the interaction of language and culture; methods of tracing the history of languages and their interrelationships.

310. *Linguistic Techniques:* Miss Dorian.

Introduction to techniques of linguistic analysis: typology, phonetics,

phonemics, morphemics, syntax; generative grammar; historical and comparative linguistics; writing systems and literacy.

312b. *Field Methods in Linguistics:* Miss Dorian.

Practical experience in transcription and analysis of an unfamiliar language. There will be an informant, and students will be able to develop their own methodology for approaching a language with which they have no previous experience.

400. *Seminars in Black Studies:* Mr. Aptheker, Mr. Jones, Mr. Rollins.

The course will consist of lectures and seminars on the role and contribution of Black people in American civilization. Junior standing or above is required.

Physical Education

Director: Anne Lee Delano, M.A.
Instructors: Sandra D. Brugger, B.S.
Jan Eklund Fisher, M.ED.
Ann Carter Mason, B.S.
Mary L. O'Toole, M.S.
Janet A. Yeager

The Department of Physical Education has developed a program to:

1. Recognize the student with a high degree of neuromuscular coordination and physical stamina, and encourage her to maintain this status.

2. Provide incentive for students of lower levels of neuromuscular coordination and physical stamina to improve to a higher more recognized standard.

Through a combination of tests, some already used for several years, a student's physical education profile score (P.E.P.) can be determined. On the basis of this profile score the student will be advised to what extent she has satisfied the freshman (or sophomore) requirement. She may have no required activity her freshman year or she may have to fulfill the usual first-year requirement. A student may request a re-test at the end of semester I. All students will be required to take the sophomore year in Physical Education unless a re-test is requested and passed in the Fall of that year.

Students of high-level profile scores are free to elect any activity offered by the Department, including those specialized units in Dance Orientation, Sports Orientation and Relaxation. Should a student in this level profile score not participate in activity, there are factors which will be sacrificed: regular activity, opportunity for social exchange, recreation, relaxation and the possible lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance, will be free to elect sports activities, and the choice of two of a three-unit course in movement education will be a required part of the program.

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Aptitude and Achievement Battery (performance skill)
 a. Standing broad jump
 b. Sand bag throw
 c. Obstacle course
2. Fitness Battery (strength and endurance)
 a. Standing broad jump
 b. Sit-ups
 c. Push-ups
 d. Step-ups
3. Body weight control
4. Swim test (for survival)

All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student unless excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings

Fall: archery, fencing, golf, hockey, modern dance, movement education, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. *Winter:* badminton, basketball, diving, exercise, fencing, folk dance, modern dance, movement education, riding,* skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. *Spring:* archery, golf, lacrosse, riding,* soccer, swimming, tennis and volleyball.

Swimming Test: Jump into deep end of pool (feet first entry), tread water one minute without use of hands, back float motionless two minutes, demonstrate two strokes while swimming lengths of pool for 10 minutes without stopping, resting, or touching bottom or sides of pool.

* Open only to Sophomores with permission of the Department, and to Freshmen who have satisfied the requirements.

Financial Aid

The scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. Several large corporations sponsor scholarship programs for children of employees. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately $1350. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. Bryn Mawr College participates in the College Scholarship Service of the College Entrance Examination Board. Participants in the Service subscribe to the principle that the amount of aid granted a student should be based upon financial need. The Service assists colleges and other agencies in determining the student's need for financial assistance. All applicants must submit in support of application for financial aid the form entitled Parents' Confidential Statement which is prepared by the Service. When the total amount of aid needed has been deter-

mined, awards are made in the forms of loans and scholarships. All students who are granted a scholarship in the award of the College or the alumnae clubs are asked to borrow the first $200 of their total financial aid from one of the loan funds (see page 163). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 166.

Scholarships are available to entering students, to students who have completed one or more years of study in the College and to students transferring from two-year institutions. Students entering on transfer from four-year colleges in the United States are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

Applications for Financial Aid Available at Entrance

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 1* of the student's final year in high school in the case of regular applicants, and *no later than October 1* in the case of applicants under the Early Decision Plan.

The fact that a student has applied for financial assistance is not taken into consideration in evaluating the candidate's application for admission to the College.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult with their school counselors about national and local scholarships which may be available.

Undergraduate Scholarships

The renewal like the award of the scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed applications must be returned to the Scholarship Office of the College by January 7. A new

financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarship Funds

The Mary L. Jobe Akeley Scholarship Fund was established by bequest of Mary L. Jobe Akeley. The income from this fund of $40,243 is to be used for undergraduate scholarships with preference being given to students from Ohio. (1968)

Alumnae Regional Scholarships are available to students in all parts of the United States and Canada. These scholarships, raised by alumnae, vary in amount but may cover full fees for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Alumnae Bequest Scholarship Fund, now totaling $7,196, was established by bequests received for scholarships from alumnae of the College. (1965)

The Marion Louise Ament Scholarship Fund was established by bequest of Berkley Neustadt in honor of his daughter, Marion Louise Ament of the Class of 1944. The income is to be used for scholarships. (1967)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of $10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Edith Heyward Ashley and Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910.

Note: *The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.*

In 1969, the fund was increased by $25,000 by bequest of Edith Heyward Ashley of the Class of 1905. The fund now totals $50,000 and the income is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

The Elizabeth Congdon Barron Scholarship Fund. In 1960, by Mrs. Barron's bequest of $2,500, the Elizabeth Congdon Barron Fund was established "for the general purposes of the College." Through gifts from her husband, Alexander J. Barron, the fund was increased to $25,000 and the Elizabeth Congdon Barron Scholarship Fund was established. Through further gifts from Mr. Barron, the endowment has been raised to $55,000. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to $50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to $30,855. (1947)

The Mariam Coffin Canaday Scholarship Fund was established by a gift of $18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this fund was capitalized until in 1969 the fund reached the amount of $25,000. The income henceforth is to provide scholarships with preference given to students from Toledo, Ohio, or from District VI of the Alumnae Association. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of $30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling $13,441, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs

financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962, the fund was increased from $7,405 to $13,441 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling $3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of $115,494 is to be used for the residence fees of students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residenc without such assistance and who are not holding other scholarships. (1957)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of $5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of $12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The 1967 College Bowl Scholarship Fund of $16,000 was established by the Bryn Mawr College team from its winnings on the General Electric College Bowl Television Program. The scholarship grants were donated by the General Electric Company and by Seventeen Magazine and supplemented by gifts from the Directors of the College. The members of the team were Ashley Doherty (1971), Ruth Gais (1968), Robin Johnson (1969) and Diane Ostheim (1969). Income from this fund will be awarded to an entering freshman in need of assistance. (1967)

The Julia Cope Collins Scholarship was established by bequest of $10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling $76,587, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to $10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of $31,656 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The Rebecca Taylor Mattson Darlington Memorial Scholarship Fund was established by members of her family in memory of Rebecca Taylor Mattson Darlington, Class of 1896. The income is to be used for undergraduate scholarships. (1967)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of $2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to $12,713, was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles Bennett Brown of the Class of 1930. Preference is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of $29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fohs and F. Julius Fohs Perpetual Scholarship Fund was established by a gift of $75,000 from the Fohs Foundation. The income only is to be used. (1965)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of $35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Edgar M. Funkhouser Memorial Scholarship Fund of $30,000 was established from his estate by Anne Funkhouser Francis of the Class of 1933. Awards may vary in amount up to full tuition and be tenable for four years. Income from this fund may be awarded annually, first preference being given to residents of southwest Virginia; thereafter to students from District IV eligible for aid in any undergraduate year. (1964)

The Helen Hartman Gemmill Scholarship, value $500, given for the year 1969-70, is awarded to a student majoring in English from funds provided by the Warwick Foundation. (1967)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, tenable for four years, may be as high as $2,000 a year, depending upon demonstrated need. The award is made "on the basis of secondary school records and reports, as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of $2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value $1,000, given for the year 1969-70, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship was given in memory of Katharine Houghton Hepburn of the Class of 1900. The income on this fund, now totalling $8,134, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of $5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. The income from this fund has been supplemented by gifts from Mrs. John H. Hislop. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of $10,056 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund of $10,224 is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of $10,180 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to $1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of $10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Lillia Babbitt Hyde Scholarship Fund was established by gifts of $25,600 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for award in so far as possible to students whose major subject will lead to a medical education or a scientific education in chemistry. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of $246,776 under the will of Jennie E. Ireson, her daughter. The income on each $5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of $10,195 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Alice Lovell Kellogg Fund was founded by a bequest of $5,000 by Alice Lovell Kellogg of the Class of 1903. The income is to be used for undergraduate scholarships. (1967)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest under the will of George W. Kendrick, Jr., in memory of his wife. The income on this fund of $5,362 is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. (1916)

The Misses Kirk Scholarship Fund, now amounting to $1,401, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Elizabeth B. Kirkbride Scholarship Fund was established by a gift of $1,150 from Elizabeth B. Kirkbride of the Class of 1896. The income is to be used for undergraduate scholarships. (1964)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling $11,000 is awarded to an entering student from New England selected by the President of the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of $5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to $5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Alice Low Lowry Memorial Scholarship Fund was established by gifts amounting to $10,938 in memory of Alice Low Lowry of the Class of 1938 by members of her family and friends. The income is to be used for scholarships. (1968)

The Gertrude Howard McCormick Scholarship Fund was established by gift of $25,000 by the late Gertrude Howard McCormick. The scholarship, value $1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to $17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to $13,000, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund, now amounting to $25,068, was established by the Class of 1944. The class on its 25th anniversary in May 1969 increased the fund by $16,600. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to $14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of $25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The New Hampshire Scholarship Fund of $15,000 was established in 1965 by the Spaulding-Potter Charitable Trust. A matching fund was raised by contributions from New Hampshire alumnae. Income from the two funds will be awarded each year to an undergraduate from New Hampshire on the recommendation of the New England Regional Scholarship Committee. (1965)

The Alice F. Newkirk Scholarship Fund was founded by a bequest of $2,500 by Alice F. Newkirk. The income is to be used for scholarships. (1965)

The Mary Frances Nunns Scholarship was established by a bequest of $25,275 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling $10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of $30,000 from the Class of 1922. (1963)

The Fanny R. S. Peabody Scholarship Fund was established by bequest of $177,927 in the will of Fanny R. S. Peabody. The income from the Peabody Fund is awarded to students from the western states. (1943)

The Delia Avery Perkins Scholarship was established by bequest of $58,474 from Delia Avery Perkins of the Class of 1900. Mrs. Perkins was Chairman of the New Jersey Scholarship Committee for a number of years. The income on this fund is to be awarded to students entering from Northern New Jersey. (1965)

The Ethel C. Pfaff Scholarship Fund was established by a bequest of $295,616 from Ethel C. Pfaff of the Class of 1904. The income from this fund is to be awarded to entering freshmen. (1967)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of $5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund, now totalling $6,681, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift from her daughter, Mrs. J. Campbell Harris. The income on this fund of $5,542 is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund of $4,598 is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of $1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at $11,308 in memory of both Anne Powers and her sister, Mrs. Hough (Ethel Powers), by Nancy Hough Smith of the Class of 1925. (1919)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to $27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to $27,010, the income which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of $11,033 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of $50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of $22,952 is awarded to a member of the junior class who shows great distinction of scholarship and character

and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

The Constance Schaar Scholarship Fund, now totalling $7,869, was established in 1964 by her parents and friends in memory of Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

The Judith Harris Selig Scholarship Fund was established in memory of Judith Harris Selig of the Class of 1957 by members of her family and friends. The Class of 1957 added their reunion gift in 1967 to this fund. The income is to be used for undergraduate scholarships. (1968)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to $20,682. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to $4,150, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of $5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Gertrude Slaughter Scholarship Fund was established by bequest of $19,909 by Gertrude Taylor Slaughter of the Class of 1893. The income on this fund is to be used for undergraduate scholarships, preferably to students of Greek or Latin. (1964)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of $16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of $15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling $33,652 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of $3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals $11,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling $8,493. The income from this fund is used for a scholarship for the study of Archaeology. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to $10,660, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Ethel Vick Wallace Townsend Memorial Fund was established by Elbert S. Townsend in memory of his wife, Ethel Vick Wallace Townsend of the Class of 1908. The income on his fund, held by the Buffalo Foundation, is to be used for undergraduate scholarships. (1967)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from *The Jacob Fussell Byrnes and Mary Byrnes Fund,* which was established in memory of her mother and father by a bequest of $51,513 under the will of Esther Fussell Byrnes. (1948)

The Mildred Clarke Pressinger von Kienbusch Scholarship Fund was established by C. Otto von Kienbusch in memory of his wife, Mildred Clarke Pressinger von Kienbusch, of the Class of 1909. The income from this fund of $25,000 will be awarded each year to a student in need of assistance. (1968)

The Julia Ward Scholarship Fund was established by a gift of $7,075 for a scholarship in memory of Julia Ward of the Class of 1923 by one of her friends and by additional gifts from others. The income on this fund which now amounts to $25,146 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of $25,000 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of $7,513 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of $25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in

honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959, Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund of $5,694 will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of $1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of $10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be awarded to a resident Negro student. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of $3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of $5,230 in the will of Rebecca Winsor Evans. The scholarship is to be awarded to a resident Negro student. (1962)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of $6,230 in the will of Ellen Winsor. The scholarship is to be awarded to a resident Negro student. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling $2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of $1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Scholarships for Foreign Students

The Bryn Mawr Canadian Scholarship will be raised and awarded each year by Bryn Mawr alumnae living in Canada. The scholarship, varying in amount, will be awarded to a Canadian student entering either the undergraduate or graduate school. (1965)

The Chinese Scholarship comes in part from the annual income of a fund now totalling $30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of $331, 425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Margaret Y. Kent Scholarship Fund, Class of 1908, was established by bequest of Margaret Y. Kent of the Class of 1908. The income from the fund of $7,000 is to be used to provide scholarship assistance to foreign students. (1967)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value $1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study.*

The Commonwealth Africa Travelling Scholarship was established by a grant of $50,000 from the Thorncroft Fund, Inc. at the request of Helen and Geoffrey de Freitas. The income from this fund will be used to send, for at least six months, a Bryn Mawr graduate to a university or college in Commonwealth Africa, or former British colony in Africa, to teach or to study, with a view to contributing to mutual understanding and the furtherance of scholarship. (1965)

The Gertrude Slaughter Fellowship was established by a bequest of $50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship to be used for a year's study in the United States or abroad. (1964)

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling $3,310 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of $12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of $5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English,

and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of $5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science,* to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages,* to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 159). (1915)

The Academy of American Poets Poetry Prize of $100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The award, given by the Academy of American Poets, was first made in 1957.

The Bain-Swiggett Poetry Prize was established by a gift of $1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling $2,625 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded in 1946 by a gift of $1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. This year the fund was increased by bequest of $2,400 by

one of her former students. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this fund of $1,970 has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of $2,600 is to be awarded as the Department of History may determine. (1957)

The *Alexandra Peschka Prize* was established in memory of Alexandra Peschka of the Class of 1964 by gifts from her family and friends. The prize of $100 is awarded annually to a member of the freshman or sophomore class for the best piece of imaginative writing in prose. The award will be made by a committee of the Department of English who will consult the terms stated in the deed of gift. (1968)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of $690 may be awarded every two years to a student in Economics. Awarded in 1965. (1938)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Katherine Stains Prize Fund in Classical Literature was established by Katherine G. Stains in memory of her parents, Arthur and Katheryn

Stains, and in honor of two excellent twentieth-century scholars of Classical Literature, Richmond Lattimore and Moses Hadas. The income on the fund of $1,000 is to be awarded annually as a prize to an undergraduate student for excellence in Greek Literature, either in the original or in translation. (1969)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904. From the income on the bequest of $500 a prize is to be awarded from time to time to a student in Geology. (1963)

The Esther Walker Award was founded by the bequest of $1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College until her death in 1966. The income only from this gift is to be used. (1961)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships

must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of $30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of $10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of $10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of $21,033 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Loan Funds

Bryn Mawr College administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents' Confidential Statement prepared

by the College Scholarship Service of the College Entrance Examination Board.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1,500. Students who wish loans may obtain from the Dean or the Alumnae Office the necessary blanks which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans—to students coming from New Jersey, to students coming from Missouri, to students coming from any other location who have had not less than one year of residence at the College.

b. The loans in the above order of preference, and in the following

manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is $500. No interest is charged while the student is in college. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. The $200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

b. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

c. The maximum amount which can be borrowed for any given academic year is $500.

d. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

e. Loans are awarded by a committee consisting of the Dean of the College *(Chairman),* the Dean of the Graduate School and the Director of Admissions.

The second kind of loan program administered by the College, is based on government funds made available through *The National Defense Education Act (NDEA) Student Loan Program.* Applications for loans must be accompanied by the Parents' Confidential Statement

prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must subscribe in writing to an oath or affirmation of allegiance to the United States of America. Under the NDEA Student Loan Program, students may borrow up to $1,000 each year, depending on need, and all loans from this source may not exceed a total of $5,000.

Students who, upon graduation, teach on a full-time basis in public or private non-profit elementary and secondary schools and in institutions of higher education are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.

Employment and Vocational Counselling

The Office of Career Planning and Placement is concerned with student and alumnae career, summer and self-help job interests.

Students and Alumnae may consult with this Office about careers which match their interests, preparation, and experience, information on specific employers and current job openings, and techniques of job-hunting. Career Planning and Placement also collects, maintains and makes available to employers, credentials including biographical data and faculty and employer references, for those who register with the office.

Students may obtain part-time employment during the school year both on- and off-campus. Some of the jobs available are clerical, library work, typing, waitressing, child care and sales. Information on summer jobs is collected and made available to those students who are interested in summer work experience. The staff is also available to consult with students on appropriate jobs, employers and job-hunting techniques for summer pre-vocational work experiences.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in Dalton Hall.

Alumnae Representatives

Officers of the Alumnae Association

President, Mrs. Daniel V. McNamee, Jr., 352 Loudonville Road, Loudonville, New York 12211
First Vice President, Mrs. Richard H. Dana, Jr., 180 East 95th Street, New York, New York 10028
Second Vice President, Mrs. Fred Alexander, 1400 Youngsford Road, Gladwyne, Pennsylvania 19035
Recording Secretary, Mrs. William H. Taft III, 3101 35th Street, N.W. Washington, District of Columbia 20016
Corresponding Secretary, Mrs. Richard E. Fisher, 5140 Pembroke Place, Pittsburgh, Pennsylvania 15232
Treasurer, Mrs. John P. Mason, 350 Warner Road, Wayne, Pennsylvania 19087
Chairman, Alumnae Fund, Mrs. Peter Randall, 20 Laughlin Lane, Philadelphia 19118
Chairman, Selection Committee, Mrs. Henry W. Levinson, 16 East 96th Street, New York City, New York 10028
Chairman, Scholarship & Loan Fund Committee, Mrs. S. Hamill Horne, 1436 Rose Glen Road, Gladwyne, Pennsylvania 19035
Chairman, Wyndham Committee, Mrs. John C. Williams, 605 New Gulph Road, Bryn Mawr, Pennsylvania 19010

Executive Director, Mrs. Herbert W. Reisner
Executive Secretary, Alumnae Fund, Miss Ellenor Morris
Editor, The Alumnae Bulletin, Mrs. S. Ingalls Hutchinson Wyndham, Bryn Mawr, Pennsylvania 19010

Alumnae Directors of Bryn Mawr College

Mrs. Thomas S. Horrocks, 151 Booth Lane, Haverford, Pennsylvania 19041
Mrs. Edgar F. Kaiser, 3100 Andreasen Drive, Lafayette, California 94549
Mrs. Samuel H. Paul, 540 East Gravers Lane, Philadelphia, Pennsylvania 19118
Mrs. Nathan M. Pusey, 17 Quincy Street, Cambridge, Masschusetts 02138
Mrs. Cornelius C. Vermeule III, 47 Coolidge Hill Road, Cambridge, Massachusetts 02138
Mrs. William Nelson West, 340 Highland Lane, Bryn Mawr, Pennsylvania 19010

District Councillors

District I: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut (except Fairfield County)
Mrs. Warren Delano, Gerrish Island, Kittery Point, Maine 03905

District II: New York, Fairfield County (Connecticut), Northern New Jersey
Mrs. T. Guthrie Speers, Jr., 35 North Main Street, New Canaan, Connecticut 06840

District III: Pennsylvania, Southern New Jersey, Delaware
Mrs. Marcus Aaron, 1925 Wightman Street, Pittsburgh, Pennsylvania 15217

District IV: Maryland, Virginia, West Virginia, District of Columbia
Mrs. E. Harrison Clark, 1555—35th Street N.W., Washington, D. C. 20007

District V: North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Arkansas, Tennessee
Mrs. Jon J. Johnston, 4362 Wieuca Road N.E., Atlanta, Georgia 30305

District VI: Ohio, Indiana, Kentucky, Michigan
Mrs. Richard H. Allen, 3822 Barker Road, Cincinnati, Ohio 45229

District VII: Illinois, Iowa, Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Missouri
Mrs. C. Dennis Joerger, 7136 Kingsbury Boulevard, University City, Missouri 63130

District VIII: Colorado, Arizona, New Mexico, Texas, Oklahoma
Mrs. Kenneth R. Blum, 2740 Flora Place, Denver, Colorado 80210

District IX: California, Nevada, Utah, Hawaii
Mrs. Victor D. S. Troxell, 505 Frontera Drive, Pacific Palisades, California 90272

District X: Washington, Oregon, Idaho, Montana, Wyoming, Alaska
Mrs. Donald S. Voorhees, 6811—51st Avenue N.E., Seattle, Washington 98115

All alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College.

Officers of Alumnae Groups and College Representatives

Alabama
Montgomery . . . Mrs. Paul B. Jones, 3601 Lancaster Avenue 36106
Alaska
Juneau Mrs. Thomas G. Echols, 455 South Franklin 99801
Arizona
Tucson Mrs. Lawrence S. Mayo, 2621 East Elm 85716
Arkansas
Hot Springs Mrs. James H. Chestnutt, 118 Cheswood Drive 71919
Little Rock Mrs. John M. Harrison, 7 Longfellow 72207
California
Chula Vista Mrs. Paul Thompson, 1060 Las Bancos Court 92011
Danville Mrs. Ryo Arai, 309 Marks Road 95426
Lafayette Mrs. Edgar F. Kaiser, 3100 Andreasen Drive 94549
Los Angeles Mrs. Christos Papatheodorou, 3625 Terrace View Drive 91316
Manhattan Beach . . Mrs. Allyn Kreps, 1315 Fifth Street 90266
Pacific Palisades . . Mrs. Victor D. S. Troxell, 505 Frontera Drive 90272
Palo Alto Mrs. Jackson T. Witherspoon, 1255 Hamilton Avenue 94301
San Francisco . . . Mrs. Thomas B. Kelly, 2720 Vallejo Street 94123
Santa Barbara . . . Mrs. Paul D. Kolyn, 1213 Viscaino Road 93103
Colorado
Boulder Mrs. Martinus H. Nickerson, 1830 Mariposa Avenue 80302
Denver Mrs. Kenneth R. Blum, 2740 Flora Place 80210
Connecticut
Bristol Mrs. H. Phillips Jesup, 183 Fox Den Road 06010
New Canaan . . . Mrs. T. Guthrie Speers, Jr., 35 Main Street 06840
New Haven Mrs. Charles C. Kingsley, 130 Huntington Street 06511
Weston Mrs. Lewis E. Weinstein, Little Fox Lane 06880
Delaware
Wilmington Mrs. Alpheus M. Ball, 1314 Woodlawn Avenue 19806
District of Columbia
Washington Mrs. G. Howland Chase, 2000 24th Street N.W. 20008
Mrs. E. Harrison Clark, 1555 35th Street N.W. 20007
Mrs. Lawrence I. Hewes 3rd, 1821 Randolph Street N.W. 20011
Mrs. William H. Taft III, 3101 35th Street N.W. 20016
Florida
Miami Mrs. Samuel Bell, Jr., 7261 S.W. 47th Court 33143
Winter Park . . . Mrs. Joseph D. Robinson, Box 704 32789
Georgia
Atlanta Mrs. Robert W. Downie, 1496 Rock Springs Circle N.E. 30305
Mrs. Jon J. Johnston, 4362 Wieuca Road N.E. 30305
Hawaii
Honolulu Mrs. Thomas P. Goodbody, Jr., 2330 Beckwith Street 96822
Idaho
Moscow Mrs. William St. Clair Greever, 315 South Hayes Street 83843

Illinois

Evanston Mrs. John H. Morrison, 2715 Payne Street 60201
Lake Forest Mrs. Richard Bentley, 1421 Lake Road 60045
Mrs. Willard N. Boyden,
1255 North Green Bay Road 60045
Mrs. William Burry, 909 Elm Tree Road 60045
Mrs. I. W. Colburn, 700 North Lake Road 60045

Indiana

Kokomo Mrs. Charles B. Hicks, 1611 Mulberry Street 46901
New Augusta . . . Mrs. Harley W. Rhodehamel, Jr.,
Route 16, Box 204 46278

Iowa

Bettendorf Mrs. Thomas Bates, 1312 Middle Road 52722
Iowa City Mrs. Curt A. Zimansky, 1412 E. Court Street 52240

Kansas

Topeka Mrs. Geoffrey S. Warren, 4925 Cedar Crest Road 66606

Kentucky

Lexington Mrs. A. Thornton Scott, 1700 Lakewood Street 40502
Louisville Mrs. Charles S. Blakely, 4709 Brownsboro Road 40207
Mrs. Robin Cooper, Jr., Woodside Road 40222
Mrs. Mason C. Rudd, 5221 Moccasin Trail 40207

Louisiana

New Orleans . . . Mrs. Eugene A. Brierre, 1508 Pine Street 70118

Maine

Kittery Point . . . Mrs. Warren Delano, Gerrish Island 03905
Yarmouth Mrs. Donald C. Hansen, 32 Newell Road 04096

Maryland

Baltimore Mrs. Glen M. Clarke III, 309 Oakdale Road 20210
Owings Mills . . . Mrs. William C. Trimble, Jr., Chattolanee Hill 21117

Massachusetts

Amherst Mrs. Howard W. Jaffe, 107 Alpine Drive 01002
Boston Mrs. Talbot Aldrich, 59 Mt. Vernon Street 02108
Mrs. Sidney N. Shurcliff, 87 Pinckney Street 02108
Cambridge Mrs. Nathan M. Pusey, 17 Quincy Street 02138
Mrs. Cornelius M. Vermeule III,
47 Coolidge Hill Road 02138
Milton Mrs. Dwight D. Evans, 40 Canton Avenue 02187
Tyringham Mrs. Rustin McIntosh 01264

Michigan

Ann Arbor Mrs. George C. Cameron, 1515 Ottawa Avenue 48105
East Lansing . . . Mrs. Leighton A. Price, 1514 J Spartan Village 48823
Farmington Mrs. David N. Mills, 24300 Locust Drive 48024
Grosse Pointe . . . Mrs. G. William Duffield, 525 Rivard Boulevard 48230

Minnesota

Minneapolis Mrs. Peter W. Anson, 1819 James Avenue South 55403
Mrs. Clarence M. Hardenbergh,
66 Groveland Terrace 55403
Mrs. Lyndon M. King, 1941 Penn Avenue South 55405
Mrs. Courtland Y. White, 3906 Thomas Avenue South
Wayzata Mrs. Daniel Clemson, Route 3, Box 80-A 55391

Mississippi

Jackson Mrs. Bryant Mather, Drawer 2131 39205

Missouri

Florissant Mrs. Evarts A. Graham, 18 South Kingshighway 63108
Parkville Mrs. Leamon Howell,
Department of Biology, Park College 64152
St. Louis Mrs. Philip R. Gale, 125 Orchard Road 63119
Mrs. Arthur Miethke, 1102 Dovergate Drive 63122
University City . . Mrs. C. Dennis Joerger,
7136 Kingsbury Boulevard 63130

Montana

Missoula Mrs. William M. Myers, 2308 Cloverdale Drive 59801

Nevada

Las Vegas Mrs. Oscar Goodman, 3090 Viking Road 89109

New Hampshire

Exeter Mrs. Richard W. Day, 27 Pine Street 03833
Keene Mrs. N. Michael Plaut, Peg Shop Road 03431
Nashua Miss Anna Stearns, 37 Orange Street 03060

New Jersey

Princeton Mrs. Douglas Delanoy, 62 Battle Road 08540
Mrs. E. Baldwin Smith, 253 Prospect Avenue 08540
Mrs. Lyman Spitzer, Jr., 659 Lake Drive 08540
Mrs. Geoffrey Nunes, 347 Cold Soil Road 08540
Summit Mrs. Hugo Pfaltz, Jr., 118 Prospect Avenue 07901

New Mexico

Albuquerque . . . Mrs. Field Holland, Department of English,
University of New Mexico 87106
Santa Fe Mrs. Julius L. Wilson, 924 Canyon Road 87501

New York

Fayetteville Mrs. Edward J. Stevens III,
5110 Highbridge Street 13066
Long Island Mrs. Charles B. Brown,
3 Joel Place, Port Washington 11050
Mrs. Marvin Socolof, 4 Orchard Lane, Great Neck 11024
Loudonville Mrs. Douglas C. Coupe, 7 Chestnut Hill North 12211
Mrs. Daniel V. McNamee, Jr.,
352 Loudonville Road 12211
New York City . . Miss Barbara Colbron,
The Spence School, 22 East 91st Street 10028
Mrs. Richard H. Dana, Jr., 180 East 95th Street 10028
Mrs. John D. Gordan, 113 East 78th Street 10021
Mrs. Russell K. Jones,
Fiduciary Trust Company, 1 Wall Street 10005
Mrs. Henry W. Levinson, 16 East 96th Street 10028
Mrs. Henry J. Mali, 27 East 69th Street 10021
Mrs. Jerome Shaw, 131 East 69 Street 10021
Mrs. Thomas Thacher, Dodgewood Road, Bronx 10471
Rochester Mrs. Thomas Griswold, Huntington Hills 14622
Scarsdale Mrs. Howard Taylor, 2 Walworth Street 10583
Snyder Mrs. Jay E. Brett, 20 Colonial Drive 14226
Van Hornesville . . Mrs. Everett N. Case 13475

North Carolina

Chapel Hill Mrs. T. Robert S. Broughton,
1111 Roosevelt Drive 27514
Charlotte Mrs. A. Ledyard DeCamp, 1830 Cassamia Place 28211
Durham Mrs. W. Winslow Shea, Rural Route 1, Box 168 27705
Raleigh Mrs. Robert L. Gatling II, 809 Rosemont Avenue 27607

Ohio

Canton Mrs. Cyril V. Gross, 261-19th Street, N.W. 44709
Cincinnati Mrs. Richard H. Allen, 3822 Barker Road 45229
Mrs. John B. Chewning, 7765 Graves Road 45243
Mrs. David Reichert, 1164 Sunnyslope Drive 45229
Columbus Mrs. H. Roy Chope, 3885 Woodbridge Road 43221
Mrs. James O. Seymour, 26 Sessions Drive 43209
Shaker Heights . . Mrs. Kerro Knox, 3141 Huntington Road 44120
Toledo Mrs. Ward M. Canaday, 4455 Brookside Road 43615
Mrs. Robert E. Hansen, 5031 Chatham Way 43615
Willoughby Mrs. Pierre Lalire,
White Hill Road, Rural Delivery 3 44094

Oklahoma

Oklahoma City . . Mrs. Sigmund Harpman, Jr., 6 Colony Lane 73116
Mrs. William T. Thach, 701 Northeast 50th Street 73105
Tulsa Mrs. Donald H. Nelson, 4131 Oak Road 74105

Oregon

Eugene Mrs. Peter H. vonHippel, 1900 Crest Drive 97405
Portland Mrs. Roger A. Bachman, 4436 S.W. Warrens Way 97221
Mrs. H. Lenox H. Dick, 4717 N.W. Barnes Road 97210
Mrs. Alan Director, 6210 S.W. Thomas 97221

Pennsylvania

Bryn Mawr Mrs. William Nelson West, 340 Highland Lane 19010
Mrs. John C. Williams, 605 New Gulph Road 19010
Devon Mrs. Alan Crawford, Jr., White Horse Road 19333
Fort Washington . . Mrs. C. Jared Ingersoll, 130 Skippack Pike 19034
Gladwyne Mrs. Fred Alexander, 1400 Youngsford Road 19035
Mrs. S. Hamill Horne, 1436 Rose Glen Road 19035
Haverford Mrs. Thomas S. Horrocks, 151 Booth Lane 19041
Mrs. John S. Price, 824 Buck Lane 19041
Jamison Mrs. Kenneth W. Gemmill, Five Spruce Farm 18929
Linglestown Mrs. Frank M. Masters, Jr., Rural Delivery 1 17112
Philadelphia . . . Mrs. Duffield Ashmead III, 8206 Ardmore Avenue 19118
Mrs. J. Ebert Butterworth, 215 Sunrise Lane 19118
Mrs. Samuel H. Paul, 540 East Gravers Lane 19118
Mrs. Peter Randall, 20 Laughlin Lane 19118
Mrs. Ernest C. Savage, East Gravers Lane 19118
Mrs. Francis J. Stokes, 1009 Westview 19119
Mrs. Morgan Vining, Alden Park Manor 19144
Pittsburgh Mrs. Marcus Aaron, 1925 Wightman Street 15217
Mrs. Richard E. Fisher, 5140 Pembroke Place 15232
Mrs. Theodore L. Hazlett, Jr., 114 Fairway Lane 15238
Scranton Mrs. Paul A. Horger,
206 Fairview Road, Clark's Green 18411
Wayne Mrs. John P. Mason, 350 Warner Road 19087

Rhode Island

Providence Mrs. Phineas Sprague, 22 James Street 02903
Warwick Mrs. Irwin A. Silverstein, 238 Cobble Hill Road 02886

Tennessee

Chattanooga . . . Mrs. Glenn R. Kleinau, 2006 McCallie Avenue 37404
Nashville Miss Martha J. Lindsey, 4302 Estes Road 37215

Texas

Austin Mrs. Robert C. McGinnis, 2708 Scenic Drive 78703
Dallas Mrs. Robert L. Lichten, 6338 Aberdeen Avenue 75230
Dickinson Mrs. Joseph Mares, Box 686 77539

Texas (continued)

El Paso Miss Mary Simpson Goggin,
1398 West Borderland Road 79932

Houston Mrs. Thomas W. Houghton, 4722 Oakshire 77027

Midland Mrs. R. Paul Ricker, Jr., 804 Gulf 79704

San Antonio Mrs. Walter C. Wolff, Jr., 210 Shannon Lee Drive 78216

Utah

Salt Lake City . . . Mrs. Eugene Atwood, 1283 E. S. Temple Street 84102
Mrs. Charles E. Parmalee, 1307 4th Avenue 84103

Vermont

Plainfield Mrs. Harold E. Townsend, "Allenwood" 05667

Virginia

Richmond Mrs. Robert W. Claiborne, 1118 Grove Avenue 23220
Mrs. Fitzgerald Bemiss, 1248 Rothesay Road 23221
Mrs. Wyndham Bolling Blanton,
300 West Franklin Street 23220

Washington

Bellevue Mrs. Donald T. Hall, 3655 Hunts Point Road 98004

Seattle Mrs. Richard Stanislaw, 9664 Rainier Avenue S. 98118
Mrs. Donald S. Voorhees, 6811 51st Avenue N.E. 98115
Mrs. Miles A. Yanick, 1510 16th Avenue 98102

Tacoma Mrs. Samuel H. Brown,
11604 Interlaken Drive S.W. 98498

Wisconsin

Milwaukee Mrs. Thomas E. Elbert, 4529 West Hadley 53210
Mrs. Verne Ross Read, Jr.,
3533 North Shepard Avenue 53211

Madison Mrs. Anthony B. Way, 2721 Kendall Avenue 53705

Wyoming

Laramie Mrs. John David Love, 309 South 11th Street 82070

Puerto Rico

San Juan Mrs. Manuel Gomez-Meltz,
Box 5155, Puerta de Tierra 00906

FOREIGN

Argentina:

Miss Ana Maria Barrenechea, Coronel Diaz 1815, 80 "A", Buenos Aires

Canada:

Mrs. William A. Wheatstone, 6 Sherin Court, Weston, Ontario
Mrs. David B. Morgan-Grenville, 87 Holton Avenue, Westmount 6, P.Q.
Mrs. C. Patrick Nixon, 431 Roxborough Avenue, Rockcliffe Park, Ottawa 2
Mrs. David G. Carter, 49 Rosemount Ave., Westmount 217, Montreal, P.Q.

Denmark:

Mrs. Harald Vestergaard, Ornekulsvej 11, Charlottenlund

England:

Mrs. James A. Cochrane, Malthouse, Corsley, Warminster, Wiltshire
Mrs. Webster Plass, c/o British Museum, London, W. C. 1
Mrs. Barry Edward Sales, 2 Hillgate Place, London W. 8

France:

Mme Jean Maheu, 1 Rue Clovis, Paris V
Mrs. Stanislas Mangin, 49 Rue de Bellechasse, Paris VII

Germany:

Mrs. Hans Loening, Fischerhude bei 2801, Bremen

Greece:

Miss Elizabeth Douli, Korae 18, Nea Smyrne, Athens

India:

Miss Harsimran Malik, 28 Golf Links, New Delhi 3

Italy:

Mrs. Enrico Berra, Piazzale Biancomanis 2, Milan

Japan:

Miss Taki Fujita, 20-4, 2-chome, Higashi-Nakana, Nakano-ku, Tokyo
Miss Ai Hoshino, 20-4, 2-chome, Higashi-Nakana, Nakano-ku, Tokyo

Mexico:

Mrs. Arturo Gomez, Liverpool 149-102, Mexico 6, D.F.

Netherlands West Indies:

Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba

Norway:

Mrs. Harold Sommerfeldt, Hoff Terace 4, Oslo

Philippine Islands:

Mrs. Marcial C. Reyes, Jr., 14 Ilagan Street,
San Francisco del Monte, Quezon City

Spain:

Mrs. E. Teisceira deMattos, Calle de Triana 2, Madrid

Turkey:

Miss Suna Kili, Robert College, Bebek, Instanbul

Venezuela:

Mrs. Oscar deSchnell, Apartado 69, Caracas

Index

Absence
 from Classes, 40
 from College, 30
Academic Awards, 158-162
Academic Departments, 43
Academic Honors, 46
Academic Honor System, 40
Academic Schedule, 4-5
Acreage, 21
Administration, Officers of, 8, 16
Admission, 25-30
Advanced Placement, 27-28
Alliance for Political Affairs, 23
Alumnae Officers, 167
Alumnae Representatives, 167-173
American History, 90-95
Anthropology, 54-55
Application for Admission, 29
Application for Residence, 37
Archaeology, Classical and
 Near Eastern, 61-63
Athletic Association, 23
Attendance at Classes, 40
Avignon, Sumner Institute, 50, 81

Bachelor of Arts Degree,
 Requirements for, 43-47
Biology, 56-58
Black Courses, 49
Board of Directors, 6
 Committees of, 7
Boyce Collection, 32
Buildings and Grounds Committee, 7

Canaday, Ward, Collection, 33
Charges, Minor Fees, 38
Charges, Reduction of for
 Absence, 37-38
Chemistry, 59-61
Child Study Institute, 18, 70
Classical and Near
 Eastern Archaeology, 61-63
College Entrance
 Examination Board, 26
College History, 20-21
Computer Center, 34
Conduct, 39-40
Cooperation with Neighboring
 Institutions, 21-23, 32, 46
Coordination in the Sciences,
 Plan for, 48-49
Correspondence, Names for, 2
Course Numbers, Key to, 53
Creative Work in Art and Music, 49

Credit for Work at Other
 Institutions, 28, 46
Curriculum, 43-50
Curtis Collection, 32

Directors, Board of, 6
 Committees of, 7
District Councilors, 168

Early Decision Plan, 27
Economics, 64-69
Education, Department, 69-71
Employment and Vocational
 Counseling, 163-164
English, 72-78
Entrance Requirements, 25-29
Entrance Tests, 26
European Fellowship, 159
Excavations, 63
Expenses, 38

Faculty, 19
Fee, Residence and Tuition, 37-38
Final Examination in the
 Major Subject, 46
Finance Committee, 7
Financial Aid, 141-164
Flexner Lectures, 22
Foreign Students, 17, 29, 158
French, 78-81
French House, 50
Freshmen, Arrival of, 39

Geology, 82-85
German, 85-87
German House, 50
Goldman, Hetty, Collection, 32
Goodhart Medieval Library, 31
Government, Student, 22-23
Grades, 46
Graduate Instruction, 20
Greek, 88-89
Guidance
 Academic, 39
 Vocational, 163-164

Haverford College, Cooperation
 with, 21-23, 32, 46
Health, 40-42
Health Insurance (Student's
 Reimbursement Plan), 42
History, Department of, 89-96
History of Art, 96-98
History of Religion, 98-100
Honors, Academic, 46

Honors Work, 45
Hygiene, 47

Infirmary, 41-42
Insurance
 Health, 42
 Personal Property, 42
Interdepartmental
 Courses, 49, 137-138
Interfaith Association, 23
Italian, 101-102

Junior Year
 Abroad, 51, 81, 85, 102, 134

King Collection, 32
Laboratories, 33-34

Language Examinations, 44
Language Houses, 35, 50
Language Requirement, 44
Latin, 103-105
Library, 31-32
Library Committee, 7
Loan Funds, 164-166

Madrid, Summer Institute, 50-51
Major and Allied Work, 45-46
Mathematics, 105-107
Medical School Scholarships, 162-163
Music, 107-110
NDEA Student Loan Program, 166
Non-resident Students, 36

Office of Career Planning and
 Placement, 163-164
Officers
 Administration, 8, 16-17
 Alumnae Association, 167
 Board of Directors, 6

Phebe Anna Thorne School, 19, 70
Philosophy, 111-115
Physical Education, 42, 48, 131-132
Physical Examination, 40-41
Physics, 115-117
Placement Tests, 27-28
Plan for Coordination
 in the Sciences, 48-49
Political Science, 118-124
Premedical Preparation, 47
Presidents of the College, 21
Prizes, 158-162
Psychology, 124-127

Rare Book Room, 31
Readmission, 29-30
Registration, 39
Religious Life Committee, 7
Representatives, Alumnae, 167-173
Required Courses, 43
Requirements for Admission, 25-30
Requirements for the
 A.B. Degree, 43-47
Residence, 34-36
 Application for, 37-38
 During Vacations, 36
 Halls, 34-35
 Rules for, 35-36
Riegel Museum, 32
Russian, 128-129

Scholarships, 141-163
Science Center, 33-34
Sciences, Plan for
 Coordination in, 48-49
Secondary School Studies,
 Program of, 25
Senate, 39-40
Shaw Lectures, 22
Skinner Theater Workshop, 22
Sociology, 130-134
Spanish, 134-136
Spanish House, 50
Staff, 16-19
Student Advising, 39
Student Aid, 51-52
Student Employment, 163-164
Student Organizations, 22-24
Students' Association for
 Self-Government, 22-23
Students' Loan Fund, 164-165
Summer Institutes Abroad, 50
Summer School Work, 46-47
Supplementary Requirements for
 the Degree, 47
Swarthmore College,
 Cooperation with, 21-22, 32, 46
Swope, Gerard and Mary Hill
 Loan Fund, 166
Swope, Mary Hill Loan Fund, 165

Teaching, Preparation for, 48
Thomas, M. Carey, Library, 31-32
Transfer Students, 28-29
Trustees, 6
Tuition, 37
Tuition plan, 38

Undergraduate Association, 23
University of Pennsylvania,
 Library Catalogue, 32
U. S. Army Map Collection, 34

Vacations, Residence during, 36
Vaux Collections, 33-34
Vocational Guidance, 163-164

Withdrawal from College, 29-30
Woodward, Quita,
 Memorial Library, 31


OLD GULPH ROAD
SOCIAL WORK AND SOCIAL RESEARCH
815 NEW GULPH ROAD
SPANISH HOUSE
ARNECLIFFE
NEW GULPH ROAD
BOOKSHOP
LOW BUILDINGS
GYMNASIUM
RADNOR
DALTON
INFIRMARY
CARTREF
DOLGELLY
COLLEGE INN
MRS. OTIS SKINNER WORKSHOP
GERMAN HOUSE
POWER HOUSE
SENIOR ROW
PEMBROKE
ELEANOR DONNELLEY ERDMAN HALL
WYNDHAM
ROBERTS ROAD
HOCKEY FIELDS
TENNIS COURTS
FACULTY ROW
APPLEBEE BARN
SITE OF CLARISSA DONNELLEY HAFFNER LANGUAGE HALL
MORRIS AVENUE
YARROW STREET
YARROW
PRESIDENT HOUSE
MERION AVENUE
CHILD STUDY INSTITUTE
WEST HOUSE
WYNDON AVENUE
TO MONTGOMERY AVENUE AND U. S. 30 (LANCASTER AVENUE)
BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA
1969

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43 – Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road. Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Penn Central Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

BRYN MAWR

Undergraduate Courses

1969-70

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH

1968 / 1969

revised 1/70

BRYN MAWR COLLEGE

Graduate Department of

SOCIAL WORK

and

SOCIAL RESEARCH

of Bryn Mawr College

1968/1969



Bulletin of the
Carola Woerishoffer
Graduate Department of

SOCIAL WORK

and

SOCIAL RESEARCH

of Bryn Mawr College

1968/1969

815 NEW GULPH ROAD
BRYN MAWR, PENNSYLVANIA

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.

Contents

Trustees of the College	5
Advisory Committee	6
College Officers	6
Faculty and Teaching Staff of Graduate Department of Social Work and Social Research	7
History	9
Admission	12
Programs and Degrees	14
Master of Social Service	14
Doctor of Philosophy	16
Courses of Study	19
Program for the Master of Social Service	19
Program for the Doctor of Philosophy	24
Field Instruction	29
Fees	32
The Graduate Residence Center	34
Fellowship, Scholarships and Traineeships	35
Loan Funds	40
Library	41
Health	42
Student and Alumni Organizations	44
College Calendar	45

The Carola Woerishoffer Graduate Department of Social Work and Social Research offers a basic two-year program leading to the degree of Master of Social Service, and an advanced program leading to the degree of Doctor of Philosophy.

The Master's degree program is based upon the premise that preparation for social work practice and research requires a core of knowledge as well as skill in the application of this knowledge. A coordinated curriculum of concurrent courses and field instruction is provided.

The Doctor of Philosophy program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular. The curriculum is intended for full-time study; however, a few courses may be opened for part-time study to holders of a Master's degree from an accredited school of social work.

The Trustees of Bryn Mawr College

President
Edmund B. Spaeth, Jr.

Vice-Presidents
Millicent Carey McIntosh
Elizabeth Gray Vining

Treasurer
John E. Forsythe

Secretary
Millicent Carey McIntosh

Assistant Treasurer
J. Tyson Stokes

Assistant Secretary
Edith H. McGrath

Trustees
Millicent Carey McIntosh
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes
Edmund B. Spaeth, Jr.
Thomas B. Harvey†

The Board of Directors

Chairman
Edmund B. Spaeth, Jr.

Vice-Chairmen
Eleanor Little Aldrich
Elizabeth Gray Vining

Treasurer
John E. Forsythe

Secretary
Millicent Carey McIntosh

Assistant Treasurer
J. Tyson Stokes

Assistant Secretary
Edith H. McGrath

Directors
Millicent Carey McIntosh
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell

† Deceased.

Directors (Cont'd)
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes
Edmund B. Spaeth, Jr.
Thomas B. Harvey†
Katharine Elizabeth McBride
Eleanor Little Aldrich
J. Tyson Stokes
Phyllis Goodhart Gordan
Alice Palache Jones
Agnes Clement Ingersoll
Lewis N. Lukens

Alumnae Directors
Anne Woodward Pusey
Elizabeth Pearson Horrocks
Margaret Tyler Paul
Emily Townsend Vermeule
Edith Harris West
Clarissa Wardwell Pell

By invitation
Barbara Cooley McNamee
President of the Alumnae Association

Advisory Committee for The Department of Social Work and Social Research

Chairman: Thomas B. Harvey†

Arlin M. Adams
Mrs. Curtis Bok
Charles P. Cella, Jr.
Owen R. Davison
J. Grey Emmons
Andrew G. Freeman
Mrs. Thomas A. Hawkins
Miss Helen Herrmann
Hobart Jackson
Dr. Elizabeth Lawder
Norman V. Lourie
C. F. McNeil
Ralph Ormsby
Miss Mary Poole
William L. Rafsky
Evan Randolph, Jr.
Mrs. Roger Scattergood
Mrs. Karl R. Schoettle
Mrs. Elias Wolf
Mrs. Robert M. Woodbury

Ex officio:

Miss Katharine E. McBride
Mrs. Richard W. Foster
Bernard Ross
Mrs. Eugene Schneider
Miss Ellenor Morris
Mrs. John S. Price

† Deceased.

Officers of the College

President of the College:

Katharine Elizabeth McBride, PH.D. LL.D. L.H.D. SC.D.
Office: Taylor Hall

Dean of the Graduate School:

Elizabeth Read Foster, PH.D.
Office: The Library

Director, Graduate Department of Social Work and Social Research:

Bernard Ross, PH.D.
Office: 815 New Gulph Road

College Physician:

Frieda W. Woodruff, M.D.
Office: The Infirmary

Director of Libraries:

James Tanis, D.TH.

Faculty and Teaching Staff

Carola Woerishoffer Graduate Department of Social Work and Social Research

Bernard Ross, *Professor and Director of the Department*
A.B. University of Oregon, M.SC. (Soc. Adm.) University of Pittsburgh, PH.D. University of Michigan

Philip Lichtenberg, *Professor*
B.S. M.A. PH.D. Western Reserve University

Katherine D. K. Lower, *Professor*
B.A. M.A. PH.D. University of Wisconsin

Martin Rein, *Professor*
B.A. Brooklyn College, M.S.S.W. Columbia University,
PH.D. Brandeis University

Jean Haring, *Associate Professor*
A.B. Albion College, M.A. Ohio State University, M.S.W. University of Michigan, D.S.W. Western Reserve University

Jane C. Kronick, *Associate Professor*
A.B. Barnard College, M.S. PH.D. Yale University

Jeanne C. Pollock, *Associate Professor*
B.S. M.S.W. University of Pennsylvania

William W. Vosburgh, *Associate Professor*
B.A. Yale University, M.A. University of California at Los Angeles,
PH.D. Yale University

Greta Zybon, *Associate Professor*
B.A. Syracuse, M.S.W. State University of New York at Buffalo,
D.S.W. Western Reserve University

Merle Broberg, *Assistant Professor*
B.A. University of Minnesota, M.S.S. Bryn Mawr College

Ronald M. Feinstein, *Assistant Professor*
A.B. Roosevelt University, M.S.W. University of Illinois

Sally E. Hollingsworth, *Assistant Professor*
A.B. M.S.S. Bryn Mawr College

Ivy Bennett, *Lecturer*
B.A. B.S.W. University of Manitoba, M.S.S. Smith College

Dolores E. Melching, *Lecturer*
B.A. Temple University, M.A. University of Chicago

Ruth O. Stallfort, *Lecturer*
B.S. M.S.S. Simmons College, Third-year Certificate Columbia University

Alice Whiting, *Lecturer*
B.A. University of Iowa, M.S.W. University of Michigan

Merilyn B. Woods, *Lecturer*
B.S. Cornell University, M.ED. Temple University, PH.D. Bryn Mawr College

Dolores Norton, *Instructor*
A.B. Temple University, M.S.S. Bryn Mawr College

Solomon P. Gethers, *Field Instruction Consultant*
A.B. Temple University, M.S.S. Bryn Mawr College

Albert A. Johnson, *Field Instruction Consultant*
B.S. Wisconsin State University, M.S.W. Tulane University

Edna Robinson Kelly, *Field Instruction Consultant*
A.B. Ohio State University, M.S.S. Bryn Mawr College

Elizabeth G. Preston, *Field Instruction Consultant*
A.B. Swarthmore College, M.S.S. Bryn Mawr College

Augusta W. Schiff, *Field Instruction Consultant*
A.B. Denver University, M.S.W. Smith College

Lois R. Taber, *Field Instruction Consultant*
A.B. Mt. Holyoke College, Certificate (2-year) University of Pennsylvania

Nathan Zirl, *Field Instruction Consultant*
B.A. Long Island University, M.S.W. Columbia University

Rachel D. Cox, PH.D., *Professor of Education and Psychology*

Eugene V. Schneider, PH.D., *Professor of Sociology*

Arthur C. Huntley, M.D., *Visiting Lecturer*

Philip Sagi, PH.D, *Visiting Lecturer*

John H. Vanderzell, PH.D., *Visiting Lecturer*

History of the Department

The Graduate Department of Social Work and Social Research was opened in the fall of 1915 as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the Class of 1907. In announcing this new Department, the President of Bryn Mawr College, M. Carey Thomas, stated: "This Department will be known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order to associate in a fitting and lasting way with Bryn Mawr College, to whose endowment she so generously contributed, the name of Carola Woerishoffer."

The Department opened with eight graduate students; no undergraduates were admitted. Under the initial plan, two-thirds of the student's time was given to the study of theory and statistics, the remaining third to "practical investigation," with a half year spent in residence in a social service institution or in a social welfare organization in Philadelphia or New York.

The course of study was planned for one, two, or three years, with three years required for the Ph.D. degree and one and two years for a certificate. The Master of Social Service degree replaced the two-year certificate in 1947.

The Graduate Department of Social Economy and Social Research was the first graduate program of social work education to be offered by a college or university. Its plan of "field work" and its inclusion of work in labor and industrial relations and community organization made it somewhat different from the other early schools of social work; it was nonetheless a program of study for social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Case Work, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students of the Department in these early days

were: The Family Society of Philadelphia, The Children's Aid, the White Williams Foundation, the Big Sister Association, the Young Women's Christian Association, the Criminal Division of the Municipal Court of Philadelphia, the Social Services Department of the University of Pennsylvania Hospital, and various settlements.

In 1919 the Department became one of the six charter members of the American Association of Schools of Social Work. In this period following World War I, social work education was rapidly changing in response to the continuous expansion of social work into new settings. The curricula of the schools, including that of Bryn Mawr, responded to these changes in a variety of ways. At Bryn Mawr, preparation for social case work was expanded and additional courses in public welfare and social legislation were offered. The emphasis on research and social investigation which was central to the early curriculum of the Department continued.

Bryn Mawr had the first doctoral program in social work education, which was soon followed by the doctoral program at the School of Social Service Administration at the University of Chicago. Today almost twenty schools offer such programs.

By 1935 Bryn Mawr was one of twenty-nine schools belonging to the American Association of Schools of Social Work, of which twenty-five were in colleges or universities and only four were independent schools. The precedent set by Bryn Mawr in 1915 in establishing social work as graduate study in an institution of higher learning has now become a requirement for accreditation by the current accrediting body, the Council on Social Work Education, successor to the American Association of Schools of Social Work.

The Department at Bryn Mawr grew gradually from eight students in 1915 to forty-two full-time students in 1955, forty years later. Since 1955 it has more than doubled in size, currently having almost one hundred full-time students. A number of factors have contributed to this expansion: the acquisition of a separate building for the exclusive use of the Department, thus making it possible to admit a larger number of students; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social agencies in the metropolitan area of Philadelphia in providing field instruction opportunities.

There are more than seventy Schools of Social Work accredited by the Council on Social Work Education in the United States and Canada, and new schools are being founded each year. Although many changes have taken place both at Bryn Mawr and in social work education, the vision of those responsible for the design of the Department at its founding has been proven by experience to have been remarkably correct.

The Department now has approximately six hundred living graduates, of whom three-fourths are holders of the M.S.S. degree. Thirty-seven Ph.D. degrees have been awarded. At the time of its founding, the Department admitted only women; since the late 1930's men have been admitted, and during the last five years men have constituted an increasing percentage of the graduates.

Graduates of the Department are located in all regions of the United States and many foreign countries. Their present positions vary within a wide range of governmental and voluntary organizations and agencies and with the length of time since their graduation. They are widely represented in family services, psychiatric services, child welfare, housing and urban renewal, community mental health and mental retardation. Approximately forty-five per cent are executives, supervisors or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its more than fifty years, the Department's graduates have contributed substantially to leadership in both public and private social welfare programs.

Admission

The Graduate Department of Social Work and Social Research at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.[1] Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department. An application fee of $10 must accompany the application.

A personal interview is usually arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment fee of $25 is to be paid to the Comptroller of Bryn Mawr College. This fee is credited to the tuition for the first semester. It is not refunded if the student fails to register.

[1] Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

Courses at the University of Pennsylvania, Graduate School of Arts and Sciences, are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the university is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The university charges a small general fee for the use of the library, a $5.00 library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

Programs and Degrees

Bryn Mawr College awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for field instruction in the following: Child Welfare, Family Welfare, Medical and Psychiatric Social Work, Vocational Rehabilitation, School Social Work, Mental Retardation and Corrections. In Community Organization field instruction is provided in Community Welfare Research and Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, Community Mental Health, and other settings.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree of certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

Social Casework I and II
or
Community Organization I and II
Personality Theory I and II
Social Theory I and II
Social Welfare Policy and Services I and II
Concepts in Research and Statistics I and II
Field Instruction I and II

The courses in the second year are in part determined by the principal area of practice of the student:

Social Casework III and IV
or
Community Organization III and IV
Social Agency Administration
Social Issues and Social Policy
Social Group Work
Social and Physical Factors in Health and Disease
Political and Governmental Processes
Research Seminar
Field Instruction III and IV

In addition second-year students who have had Casework I and II in the first year will take a one semester course in Community Organization in the second year; those who have had Community Organization I and II will take a one semester course in Casework.

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction. Each student's program of study may exceed this minimum. In addition, each candidate must prepare a Master's paper.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The curriculum for the Ph.D. program provides a program of study from which a person may enter one of many careers, depending upon the changing needs and opportunities in the field and the interests and capabilities of the individual. Preparation for research and teaching are central to the goals of the program. Development of a variety of research competencies is encouraged; preparation for teaching in all areas of the social work curriculum, whether for graduate or undergraduate curricula, is also provided. Study for practice, whether in casework, community organization, administration, research or development of social policies and programs, emphasizes theoretical work.

The candidate for the Ph.D. degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program is planned to broaden the student's knowledge of social welfare in general and, through intensive research, to deepen his knowledge in one field in particular. The curriculum includes the following areas of study:

Social Welfare
Theory in Social Work Practice
Social and Behavioral Sciences
Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives pertinent to individual interests of students account for the other half. Electives may be taken in other departments within the College or at the University of Pennsylvania; and special experiences are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students may participate in various phases of research in social work under the direction of members of the faculty, engaged in a variety of research studies.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of

credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Graduate Office early in June.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School during the registration period listed in the College Academic Calendar. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

Students wishing certification to outside agencies must complete a form to be signed also by the Director of the Department and deposited in the Office of the Dean of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the academic year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSION

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I

The organization and growth of social welfare as a major social institution is examined from an historical and philosophical perspective. The organization and distribution of social services is examined at the federal, state, and local levels. Attention is given to the influence of recent economic, social, and demographic trends upon social welfare policy.

Social Welfare Policy and Services II

The nature and scope of contemporary social problems such as poverty, dependency, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are considered. The impact of present welfare services on the reduction of social problems is examined.

Social Issues and Social Policy

Issues in contemporary social policies are examined by specialists in law, economics, public health, welfare and social work.

Human Behavior and the Social Environment

Personality Theory I

From personality theory fundamental ideas are presented which are considered to be especially pertinent to the various practices of

social workers. The course leans heavily upon psychoanalytic theory. Emphasis is upon general principles connected with the determination of the shape and content of an individual's social functioning.

Personality Theory II

This course extends the work of Personality Theory I. Study in personality theories other than psychoanalytic theory is included here.

Social Theory I

This course introduces the student to the social and cultural context of the field of social welfare and the practice of social work. Starting with a general consideration of social organization and institutional arrangements of industrial society, it covers complex organizations, occupational groups, and role relationships and social stratification. Special attention is paid to the profession of social work as an example throughout.

Social Theory II

A continuation of Social Theory I, this course focuses upon client systems and social change. Starting from a review of concepts of norms and values, it develops critically a number of theories of deviant behavior, with special attention to the role of the group. It proceeds to social units which form social work client systems: the family, the small group, the community and traditional societies. The course concludes with a consideration of theories of social change.

Social and Physical Factors in Health and Disease

Attention is paid to special topics in health, public health, genetics, psychology and psychiatry that are germane to the functioning of individuals.

Political and Governmental Processes

A course based on selected materials from political science designed to extend the student's understanding of functions and prerogatives of local, state and federal governments. A major focus is the contributions of political science as discipline and theory to community welfare planning and social action.

Social Work Practice

Social Casework I

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on differential approaches to treatment as determined by differential psycho-social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields. Current issues and trends in social casework are discussed.

Social Casework IV

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker.

Introduction to Social Casework

This course is designed to introduce community organization students to the basic principles and practice of social casework.

Community Organization I

An introductory seminar on Community Organization practice in social work. Case materials, including student reports on field experiences, are utilized to examine values, concepts and principles of Community Organization. Emphasis is on the relationship of professional practice to the goals, structure and approaches of agencies concerned with community improvement and health and welfare planning. Historical and current trends in agencies are considered.

Community Organization II

A continuation of Community Organization I. The multiple roles and techniques used by the Community Organization practitioner are analyzed. Attention is given to emerging aspects of practice and to the application of various relevant theories in areas such as organization, social change and decision-making.

Community Organization III

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered. Community development is considered in relation to community organization.

Community Organization IV

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings.

Introduction to Community Organization

This course is designed to familiarize casework students with the field and practice of community organization. Emphasis is placed on the contributions of casework practitioners and direct service agencies to community improvement and community welfare planning.

Social Group Work

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include

policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations.

Field Instruction I and II

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester.

Field Instruction III and IV

Taken collaterally with Casework III and IV, Community Organization III and IV. Requirements: three days per week, first and second semesters.

Social Research

Concepts in Research and Statistics I

The goals of this course are to acquaint the student with the terminology and basic concepts of statistics within the context of research design and to equip him with a beginning competence in the statistical analysis of data.

Concepts in Research and Statistics II

This course extends and integrates the knowledge of the research process gained during the first semester. It aims to equip the student to evaluate research from both a scholarly-critical standpoint and from the perspective of practice and application. The student is also familiarized with the organization and administration of research and its place as a staff function in the field of Social Work.

Research Seminar (two semesters)

A Master's paper is required of all candidates for the M.S.S. degree. This may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a non-credit research seminar which meets as needed.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

Social Welfare

History and Philosophy of Social Welfare I

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs. The development of social policy is examined in historical perspective. Special emphasis is given to the effects that different stages of industrial development have on the assumptions and character of welfare programs.

History and Philosophy of Social Welfare II

The course will examine social welfare programs which deal with income transfers, housing, public welfare, health, mental health, and poverty. Special attention will be given to the philosophical assumptions, historical developments and implementation of welfare legislation. Recurrent policy issues in a number of fields will be studied.

Community Mental Health

Attention is directed to an historical study of concern with mental health and mental hygiene and to current directions in community mental health services and programs. Study is made of varieties of mental health services, roles and practices in the past and present; the place of these in society; and the philosophical and idealogical principles embodied in them.

Social Work Practice

Advanced Casework Theory

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on the relationship between knowledge and current assumptions in practice; gaps in knowledge; and the present stage of theory building in social casework.

Theory in Community Organization

This seminar undertakes to provide a critical analysis of the issues and trends in the conceptualization of community organization and the current status of community organization theory. Applications to three arenas of practice are made: community development and neighbor-

Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College

Because revisions are being made in both the Master of Social Service and the Doctor of Philosophy degree programs, no bulletin of the Graduate Department of Social Work and Social Research is being published for the academic year 1969-70. A new bulletin for 1970-71 will be distributed in the summer of 1970. Information in this insert updates the Bulletin of 1968-69.

This Bulletin for 1968-69, the latest for the Department, does not reflect some of the most recent changes in the curriculum, tuition, fees and faculty. For those interested in admission information, applications may be secured by writing to the Director, Graduate Department of Social Work and Social Research, Bryn Mawr College, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010. Specific questions concerning study programs may be raised in letters of inquiry or clarified in discussion at the time of the admissions interview in the Department.

The tuition for the academic year 1970-71 is $1,800. Part-time tuition in the M.S.S. program is $225 per course per semester and for the Ph.D. program is $300 per course per semester.

An enrollment fee of $50 is to be paid within ten days after official notice of admission to the Graduate Department of Social Work and Social Research. This fee is credited to the tuition for the first semester.

Scholarships and fellowships awarded by Bryn Mawr have been adjusted to reflect the increase in tuition costs.

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Service Delivery, Social Service Management, Community Development or Social Welfare Planning. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. Provision is made for field instruction in a range of public and voluntary agencies and organizations with programs in such fields and settings as: Child Welfare, Family Welfare, Medical and Psychiatric Social Work, Social Rehabilitation, School Social Work, Mental Retardation, Corrections, Community Welfare Research, Social Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, and Community Mental Health.

Program of Work. The first-year program is similar for all students except that the student selects either casework or community organization as his principal focus in social work practice. The first-year required courses are:

Social Casework (2 semesters)

or

Community Organization (2 semesters)

Personality Theory

Social Theory

Social Welfare Policy and Services

Concepts in Research and Statistics

Field Instruction (2 semesters)

In addition the student is expected to take two electives during the first year of study.

The courses required in the second year are in part determined by the student's area of practice concentration. These include a choice of Social Service Delivery, Social Service Management, Community Development, or Social Welfare Planning; and for all students, Field Instruction.

The student is expected to elect additional courses during the second year of study in consultation with his adviser. Electives are offered in the Department, in other Departments at Bryn Mawr, and at the University of Pennsylvania under the reciprocal plan.

The reduction of required courses and the increase in electives is one principle which has guided the development of the new curriculum. Another principle provides the opportunity for each student to demonstrate competence in a required course including field instruction. When competence is established to the satisfaction of the Department, required courses may be waived, and students may select additional electives.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

The Doctoral Committee is considering revisions in the degree program. At present the following courses are required:

1 year (2 semesters) Social Statistics

1 semester Research (either 1st or 2nd semester)

1 year (2 semesters) Social and/or Behavioral Sciences

1 semester History and Philosophy of Social Welfare (1st semester required)

1 semester in Theory in Social Work (Casework or Community Organization — 1st semester required)

In general 14 semester courses, not counting the dissertation, are completed in preparation for the degree. Beyond the required seminars doctoral students may elect courses in other departments at Bryn Mawr or at the University of Pennsylvania under the reciprocal plan. For further information about the doctoral program letters of inquiry may be addressed to the Director, Graduate Department of Social Work and Social Research, Bryn Mawr College, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

Bernard Ross

Director

Bryn Mawr College

The Graduate Department of Social Work

and Social Research

November 1969

hood organization; interagency program planning, coordination and financing; and more comprehensive social planning in concert with physical and economic planning.

Social Administration

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions in the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

Supervision in Social Work

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

This course is designed primarily but not exclusively for field instructors of students or supervisors of staff with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

Social and Behavioral Sciences

Personality Theories and Social Work Practice

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Change

An examination of major sociological theories of social change with special attention to social system analysis. Theories of planned change are examined through case studies.

Concepts of Mental Health

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each are traced.

Formal Organizations

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

Social Research

Social Statistics

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Research

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. Intensive coverage of survey research design, case study and clinical method, and design of social experiments.

Current Research in Social Work

Review and critical evaluation of representative classic and contemporary research studies in social work and related fields with respect to the function of social work research, problem formulation and research methodology, and trends of social work research as related to practice and theory.

Demographic Analysis

Demographic characteristics of the United States and their analysis are studied with principal attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Among the faculty of the Department a variety of research interests and competencies is represented. Some of this faculty research has provided opportunities for research experience for doctoral students and will continue to do so. The areas of research in which members of the faculty have been engaged includes: adoptions; community welfare planning; family life and economic dependency; mental health in public welfare; and evaluation of a family service agency.

SEMINARS AND COURSES IN RELATED DEPARTMENTS IN THE GRADUATE SCHOOL

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Examples of such courses are:

Economics

- Comparative Economics Systems
- Economics of Underdevelopment
- Theories and Problems of Economic Change

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Adolescent Development
- Developmental Psychology
- Research and Measurement in Education and Child Development
- The Social Psychology of the School

Political Science

- American Constitutional Law
- Topics in Urban Affairs
- World Community and Law
- Law, Policy and Personality (advanced undergraduate course)

Psychology

- Comparative Psychology
- Learning
- Sensory Processes and Perception

Sociology

- Sociological Theory
- Social Stratification
- Industrial Sociology
- Race Relations

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

Field Instruction is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student in an agency of good standards. Field Instruction is offered in casework and community organization. The purpose of the field experience is to provide the opportunity for the student to apply the knowledge gained in class and thus to deepen his knowledge and develop skill in its use. It is planned jointly by the agency and the Department in such a way as to give content, sequence and progression in learning. Field instruction runs concurrently with the academic program in order to insure an integration of the content of the two. Except in unusual circumstances the student is placed in a different agency during each year of field instruction.

In a typical program, field instruction for first-year students consists of approximately fourteen hours per week from October through January and twenty-one hours per week from February to May; for second-year students, it consists of twenty-one hours per week for each of the two semesters. Individual arrangements may occasionally be made on the basis of agency and student needs. Field instruction begins approximately ten days after the opening of the academic year.

Students are placed in a number of agencies in the Philadelphia metropolitan area. In most of these agencies, two or more students are placed with agency staff as field instructors. In other agencies a unit of students is under the direction of a field instructor appointed by the Department. Currently, such field instruction units provide field experience in:

Child Welfare
Corrections
Mental Retardation
Psychiatric Social Work
Public Assistance
Rehabilitation
School Social Work

Students in casework are placed in the following agencies:

Association for Jewish Children
Child Care Service of Delaware County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Family Service of Delaware County
Family Service of the Main Line Neighborhood
Family Service of Philadelphia
Hahnemann Hospital, Dept. of Psychiatry
Irving Schwartz Institute for Children and Youth
Jefferson Medical College Hospital, Social Service Department
Lankenau Hospital, Child Guidance Clinic
Montgomery County Mental Health Clinics, Inc.
Norristown State Hospital, Social Service Department
Pennsylvania Corrections Institution
Pennsylvania Hospital, Dept. of Sick and Injured
Philadelphia County Board of Assistance
Philadelphia General Hospital, Dept. of Psychiatry
Sleighton Farm School for Girls
Southern Home for Children
St. Christopher's Hospital, Child Psychiatry Clinic
St. Christopher's Hospital, Handicapped Children's Clinic
Temple University Hospital, Department of Social Work

Community organization field instruction settings include the following:

Bucks County Planning Commission

Community Service Council of Delaware

Health and Welfare Council, Inc., Delaware County District

Health and Welfare Council, Inc., Philadelphia

Human Relations Commission, City of Philadelphia

The Lighthouse

Mental Health Association of Southeastern Pennsylvania

Neighborhood Renewal Program, Department of Licenses and Inspections, City of Philadelphia

Office of the Development Coordinator of the City of Philadelphia

Office of Planning, Evaluation and Research, Department of Public Welfare, Commonwealth of Pennsylvania

Pennsylvania Department of Public Welfare, Southeastern Regional Office

Pennsylvania Hospital, Community Mental Health Center

Redevelopment Authority of Philadelphia

School District of Philadelphia, Office of the Deputy Superintendent for Planning

Urban League of Philadelphia

Fees

The tuition fee for graduate students is $1500 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is $250 a semester for doctoral courses and $190 for Master's courses.

Fees for auditors are the same as for student's registered in courses for credit.

All students taking courses which require field instruction are charged a fee of $10 a semester for each such course taken during the academic year. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Ph.D. candidates who have completed a minimum of 6 academic units, of which at least one must be a unit of supervised work on the dissertation, and who are continuing independent work on their dissertations either in the vicinity of the Graduate School or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of $25 each semester.

The graduation fee for Doctors of Philosophy and Masters of Social Service is $20.00.

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made after classes have begun on account of absence, withdrawal, dismissal, or for any other reason except involuntary service in the Armed Forces of the United States.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of $1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Application Fee	$ 10
Tuition Fee	1,500
Residence Fee at Graduate Residence Center (including health service)	1,000
Dispensary Fee	25
Fee for Field Instruction Manual, Research Manual and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Charge for Microfilming Ph.D. Dissertation	30
Room on campus Christmas and spring vacations ($1.50 per day — maximum 30 days)	45
Expenses, Christmas and spring vacations, commuting to field instruction, books	variable

EXCLUSION

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The Graduate Residence Center

Residence for forty-five graduate students, men and women, is provided in the Graduate Residence Center which lies at the north end of the campus. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Residence Center will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School before September 1.

The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second. Allowance cannot be made for dietary restrictions.

Residence in the Center is for the academic year only — from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of $1.50 a day (meals not included). Baggage will be accepted at the College after September 5. It should be sent prepaid, addressed to the Graduate Residence Center, and marked with the owner's name.

Fellowships, Scholarships and Traineeships

A variety of financial resources is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given in making certain awards. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to May 1st preceding the academic year for which they are desired.

BRYN MAWR FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value $3000, and one or two scholarships, value $2300. The fellowship is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. Scholarships are open to both men and women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

Application from citizens of the United States and Canada should be made to the Director of the Department and must be filed complete not later than February 15. The documents are the same as for admission. Awards are announced in late March and recipients should signify their acceptance or refusal by April 15. Applications from foreign students must be received not later than January 25. Test of English as a Foreign Language score must be included. Therefore this test, or an appropriate substitute, must be taken in October. Awards will be announced in March. There are at present no awards other than Graduate Assistantships available for foreign men students.

Women holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Residence Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student.

The College has several scholarships of $2300 which are open to men or women for study in any department.

Tuition scholarships, $1500, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

TUITION GRANTS FOR PART-TIME STUDENTS

A grant from the Samuel S. Fels Fund for three years, beginning in 1967, has doubled the funds available to assist men and women students who are unable to undertake full-time graduate work. Awards will be made, primarily for tuition, on the basis of high academic standing. Applications are due April 1 for awards to be made in the late spring and September 1 for those to be made in the early fall. Forms are available at the Graduate Office.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund for grants-in-aid. These grants, not to exceed $400, are given on the basis of need to holders of Bryn Mawr College scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 1 for spring awards and by September 1 for awards made in the fall.

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau of the United States Department of Health, Education and Welfare make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of

study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

Doctoral Program

The National Institute of Mental Health of the Public Health Service provides funds to the Department for advanced traineeships for students planning to specialize in some aspect of mental health. For applicants with a minimum of three years of experience, these traineeships provide tuition, a basic stipend of $3600 and dependency allowance within specified limits.

The Children's Bureau provides advanced traineeships to students for leadership in the field of child welfare, for research, administration, social policy and teaching. These traineeships provide tuition, a basic stipend of $3200 plus a dependency allowance.

The Vocational Rehabilitation Administration, as well as the NIMH, provides pre-doctoral research fellowships, application for which must be made by the student directly to the agency. These fellowships provide varying amounts, depending upon the year of study and the number of dependents.

TEACHING ASSISTANTSHIP

Bryn Mawr College provides Teaching Assistantships with a stipend of $2100–2300 including tuition without fee. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of $2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistant-

ship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

Master's Degree Program

The National Institute of Mental Health provides funds to the Department for traineeships for students with career goals in mental health. These traineeships are $1800 plus tuition for first year students and $2000 plus tuition for second year students. These traineeships are available for psychiatric social work, school social work and for a special program in family and child welfare.

The Vocational Rehabilitation Administration makes available to the Department funds for a varying number of traineeships for students interested in careers in rehabilitation. These traineeships provide $1800 plus tuition for first year students and $2000 and tuition for second year students.

Traineeships are also awarded by the Department from funds made available by the Children's Bureau. Preference is given to first or second-year students entering the field of social work with an interest in child welfare. These traineeships provide tuition and a stipend of $2000. Traineeships are also available for work with mentally retarded children and their families. These provide tuition and a stipend of $2500.

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to $2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. Some of these awards are made by the Department.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application

is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania. Other states have similar educational programs.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value $500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value $50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the students who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value $300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding $150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Director of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed $200, for tuition purposes may be made to students who are recommended by the Director of the Department.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

National Defense Student Loan Program — NDEA Title II. Loans up to $2500 a year are available to qualified graduate students under this Title. They are open to half-time as well as full-time students. Partial loan cancellation is offered to prospective teachers. For information write to the Dean of the Graduate School. These applications should be submitted by April 1 for spring awards and by September 1 for awards to be made in the fall.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Director of the Department, make their own arrangements to do a limited amount of paid work.

The Library

The M. Carey Thomas Library and nine departmental libraries of Bryn Mawr College contain over 330,000 books and regularly receive more than 1200 periodicals as well as many scholarly series. The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and the unusual Dillingham Collection of books on early Latin-American exploration in addition to other rare items. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in seminar rooms; individual carrels are available for some graduate students.

The main entry cards of the Haverford College Library are in the Bryn Mawr catalogue, thus bringing approximately 600,000 entries into one file. The Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

The Department of Social Work and Social Research has its own Library and Reading Rooms including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

A Computing Center with an IBM 1620 computer on the Haverford campus and auxiliary record equipment at Bryn Mawr is under joint sponsorship of Haverford and Bryn Mawr Colleges and is open to students and faculty of both colleges.

Health

Certain Health Requirements must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within three years of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Students applying for residence in the Graduate Residence Center must also submit reports of ophthalmological examinations signed by an appropriate physician; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in the Graduate Center and students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consult-

ing physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by graduate students living in the Graduate Residence Center entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven day period, the fee is $15.00 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet the expense.

Graduate students who do not live in the Graduate Residence Center may pay a $25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. Graduate students who do not live in the Graduate Residence Center are not given bed care in the Infirmary.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is $27.80 for a full year starting September 15. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides wider coverage of medical, surgical and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about $45.00 for a twelve-month period, starting in mid-September.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Student and Alumni Associations

STUDENT ASSOCIATION OF THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH

All students in the Graduate Department of Social Work and Social Research are eligible for membership in the Student Association. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Association and Faculty work together to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the interests of the Department and its alumni. Activities of the Association include a spring breakfast for students to be awarded the M.S.S. or the Ph.D.

Officers for 1968-69 are:

Mrs. Eugene V. Schneider, M.S.S., *President*

Mrs. Stephen Sheller, M.S.S., *First Vice-President*

Mrs. John F. Woolfolk, M.S.S., *Second Vice-President*

Mrs. George E. Goldstein, M.S.S., *Recording Secretary*

Mrs. Joseph Carmitchell, M.S.S., *Treasurer*

College Calendar 1968/1969

SECOND SEMESTER 1967/1968

January	29	*Work of the Second Semester begins at 9 A.M.*
January	31	*Registration period for graduate students ends.*
March	2	*Spanish examinations for Ph.D. candidates.*
March	9	*French examinations for Ph.D. candidates.*
March	16	*German examinations for Ph.D. candidates.*
March	21	*Spring vacation begins after last seminar.*
April	1	*Spring vacation ends at 9 A.M.*
April	10	*Ph.D. dissertations must be submitted to the Graduate Office.*
May	10	*Last day of seminars.*
May	13	*Examination period begins.*
May	24	*Examination period ends.*
May	27	*Conferring of degrees and close of 83rd Academic Year.*
		Graduate Residence Center closes.

FIRST SEMESTER 1968/1969

1968

September	1	*Final date for filing completed applications for admission to the Graduate School.*
September	11	*Graduate Residence Center opens.*
		Registration period for graduate students begins.
September	16	*Work of the 84th Academic Year begins at 9 A.M.*
September	18	*Registration period for graduate students ends.*
November	27	*Thanksgiving Holiday begins after last seminar.*
December	2	*Thanksgiving Holiday ends at 9 A.M.*
December	20	*Christmas Vacation begins after last seminar.*

1969

January	6	*Christmas Vacation ends at 9 A.M.*
January	9	*Examination period begins.*
January	10	*Final date for filing completed applications for admission to the Graduate School.*
January	22	*Examination period ends.*
		Registration period for graduate students begins.

SECOND SEMESTER

January	27	*Work of the Second Semester begins at 9 A.M.*
January	29	*Registration period for graduate students ends.*
March	21	*Spring Vacation begins after last seminar.*
March	31	*Spring Vacation ends at 9 A.M.*

May	9	*Last day of seminars.*
May	13	*Examination period begins.*
May	22	*Examination period ends.*
May	26	*Conferring of degrees and close of 84th Academic Year.*
		Graduate Residence Center closes.

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

The College does not cancel regularly scheduled classes because of weather conditions.

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

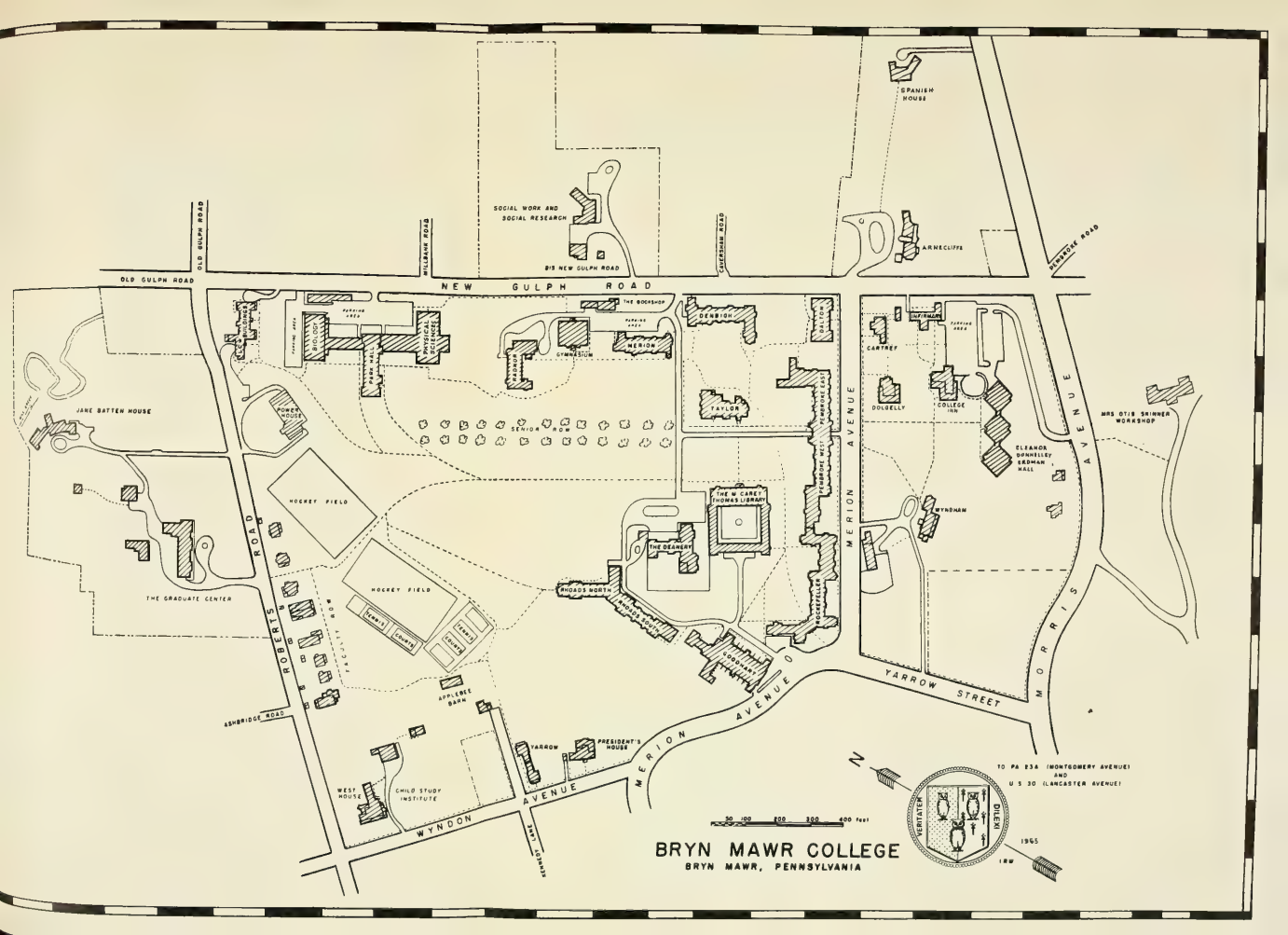
By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43 — Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.


SPANISH HOUSE
SOCIAL WORK AND SOCIAL RESEARCH
815 NEW GULPH ROAD
ARNECLIFFE
OLD GULPH ROAD
OLD GULPH ROAD
WILLARK ROAD
CATHERINE ROAD
PENNBROKE ROAD
NEW GULPH ROAD
THE BOOKSHOP
DENBIGH
INFIRMARY
CARTREF
PARKING AREA
BIOLOGY
PHYSICAL SCIENCES
PARK HALL
GYMNASIUM
MERION
TAYLOR
DOLOBELLY
COLLEGE INN
MERION AVENUE
MRS OTIS SKINNER WORKSHOP
JANE BATTEN HOUSE
POWER HOUSE
SENIOR ROW
ELEANOR DONNELLEY ERDMAN HALL
HOCKEY FIELD
THE W. CAREY THOMAS LIBRARY
TYNDMAN
THE DEANERY
ROCKEFELLER
THE GRADUATE CENTER
ROBERTS ROAD
HOCKEY FIELD
RHOADS NORTH
RHOADS SOUTH
JUNIOR ROW
SENIOR ROW
SOUTH
NORTH
EAST
WEST
APPLEBEE BARN
ASHBRIDGE ROAD
MERION AVENUE
YARROW STREET
MORRIS AVENUE
YARROW
PRESIDENT'S HOUSE
WEST HOUSE
CHILD STUDY INSTITUTE
WYNDON
SEMINARY LANE
50 100 200 300 400 feet
N
VERITATEM DILEX
TO PA 23A (MONTGOMERY AVENUE) AND U S 30 (LANCASTER AVENUE)
1965
BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA



BRYN MAWR, PENNSYLVANIA

Bryn Mawr College Calendar

The Graduate School of Arts & Sciences

1970-71

Bryn Mawr College Calendar
The Graduate School of Arts and Sciences

Issue for the Session of 1970-71
July 1970 *Volume LXIII Number 2*

BRYN MAWR COLLEGE CALENDAR published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pennsylvania 19010
Second Class Postage Paid at Bryn Mawr, Pa.

Graduate Work at Bryn Mawr

Graduate education at Bryn Mawr is built upon a close working relationship between students and mature scholars. Each student begins training on the level appropriate for his individual experience, and pursues a flexible program designed for his special requirements. Small seminars provide an opportunity to share research projects and to work under the direct supervision of the faculty.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted; but only after 1965 were adequate funds obtained to offer support for men comparable to that offered to women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. In 1970, the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research were organized as two distinct schools. Today, the student enrollment in the Graduate School of Arts and Sciences is about four hundred.

Graduate work leading to the degrees of Master of Arts and Doctor of Philosophy is available in:

Anthropology
Biochemistry
Biology
Chemistry
Classical and Near Eastern Archaeology
Economics
Education and Child Development
English
French
Geology
German
Greek
History
History and Philosophy of Science
History of Art
Latin
Mathematics
Mediaeval Studies
Music
Philosophy
Physics
Political Science
Psychology
Russian
Sociology
Spanish

Work leading to the degrees of Master of Social Service and Doctor of Philosophy is available in the Graduate School of Social Work and Social Research.

College Calendar 1970-71
The Graduate School of Arts and Sciences

First Semester

1970

Sept. 1 *Final date for filing completed applications for admission and for filing applications for loans.*

Sept. 9 *Graduate residences open.*
Registration period for graduate students begins.

Sept. 14 *Opening Assembly at 8.45 a.m.*
Work of the 86th Academic Year begins at 9 a.m.

Sept. 16 *Registration period ends.*

Oct. 24 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*

Oct. 31 *French examinations for M.A. and Ph.D. candidates.*

Nov. 4 *German examinations for M.A. and Ph.D. candidates.*

Nov. 25 *Thanksgiving Holiday begins after last seminar.*

Nov. 30 *Thanksgiving Holiday ends at 9 a.m.*

Dec. 18 *Christmas vacation begins after last seminar.*

Dec. 30 *Final date for filing completed applications for admission for Semester II.*

1971

Jan. 4 *Christmas vacation ends at 9 a.m.*

Jan. 15 *Registration period begins.*

Jan. 25 *Final date for filing completed applications for scholarships (foreign students).*

Second Semester

Jan. 25 *Opening Assembly at 8.45 a.m.*
Work of Semester II begins at 9 a.m.

Jan. 27 *Registration period ends.*

Feb. 15 *Final date for filing completed applications for fellowships and scholarships (citizens of the United States and Canada) and tuition grants (full-time and part-time students).*

Feb. 27 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*

Mar. 6 *French examinations for M.A. and Ph.D. candidates.*

Mar. 13 *German examinations for M.A. and Ph.D. candidates.*

Mar. 19 *Spring vacation begins after last seminar.*

Mar. 29 *Spring vacation ends at 9 a.m.*

Apr. 1 *Applications due for loans.*

Apr. 5 *Ph.D. dissertations in all fields except natural science and mathematics must be submitted to the Office of the Graduate School of Arts and Sciences.*

Apr. 26 *Ph.D. dissertations in natural science and mathematics must be submitted to the Office of the Graduate School of Arts and Sciences.*

May 7 *Last day of seminars.*

May 24 *Conferring of degrees and close of 86th Academic Year.*
Graduate residences close.

Admission to the Graduate School of Arts and Sciences

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 16.

Procedure

The applicant should write to the Dean of the Graduate School of Arts and Sciences, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms and indicate the field of special interest. The application must be supported by official transcripts of the student's complete academic record and by letters from the dean and two or more professors with whom he has done his major work. No application can be considered until all the necessary documents have been received. Students are accepted for either full-time or part-time work.

Graduate Record Examinations and Graduate School Foreign Language Tests

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Test in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examination should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to the Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Satisfactory scores in the Graduate School Foreign Language Test are accepted by some departments in fulfillment of the language requirement for higher degrees. Entering students should consult the departmental listings and make their own arrangements to take these tests by writing to the Educational Testing Service.

Dates

1. *Citizens of the United States and Canada:*

 Applications for admission must be complete by September 1. Graduate Record Examination tests: October 24, December 12, 1970; January 16, February 27, April 24, and June 7, 1971.

2. *Foreign Applicants:*

The closing date for admission is September 1. Applications must include the scores of the Test of English as a Foreign Language (TOEFL), the Examination of the English Language Institute of the University of Michigan, or another approved language test. Since applications from students who desire financial aid must be complete by January 25, applicants must arrange to take language tests well before that date. Candidates offering scores of the TOEFL must register for it in September and take the test not later than October of the year preceding the year in which they wish to enter.

For information concerning the TOEFL write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 26, 1970; January 11, March 22, and June 7, 1971.

Students in departments requiring the Graduate Record Examination should also arrange to take these tests not later than October.

3. *Applicants for financial aid:*

Students wishing to apply for fellowships, scholarships, assistantships, tuition grants or other forms of financial aid must present complete applications by the following dates:

For United States and Canadian citizens:

Applicants for fellowships, scholarships, assistantships, full-time and part-time tuition grants February 15

Applicants for loans April 1 and September 1

For Foreign Citizens:

Applicants for scholarships January 25

Applicants for loans April 1 and September 1

Admission to Graduate Courses

Admission to graduate courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to complete appropriate undergraduate courses before being enrolled in a full graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Graduate School of Arts and Sciences each semester during the registration period listed in the College Calendar. Changes in registration require the approval of the Dean.

Personal registration is an important obligation of the graduate student. Those who fail to register within one week of the stated period will be charged a late registration fee of $10.00.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Graduate School of Arts and Sciences.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and made formal application which has been approved by the Council of the Graduate School of Arts and Sciences.

Resources for Graduate Work at Bryn Mawr

The newly-opened Mariam Coffin Canaday Library, and the nine auxiliary libraries of Bryn Mawr College, including the Art and Archaeology collection in the M. Carey Thomas Library, contain over 360,000 books and regularly receive more than 1800 periodicals as well as many scholarly series. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in study rooms: individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services in the new library. In its card catalog, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing approximately 625,000 entries into one file. In addition, the Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

The Rare Book Room houses the Marjorie Walter Goodhart Mediaeval Library of incunabula, the extensive Dillingham Collection of books on Spanish America, and numerous other rare books and manuscripts.

Bryn Mawr has interesting archaeological and ethnological materials which are used for study and research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and other pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman has donated an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia, Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian, and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the ceramic and textile traditions known for Peru.

The Geology Department has valuable materials for research including the mineral collection of George Vaux, Jr. and 25,000 maps on deposit from the United States Army Map Service.

Students also use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of Fine Arts, the Barnes Foundation, and the University Museum of the University of Pennsylvania. They take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms and libraries for Biochemistry, Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for microphotography and for glassblowing; there is a machine shop with expert machinists in charge and a workshop available to graduate students. Laboratories and classrooms for Anthropology and Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences, through research grants from industry and other private sources, and from government agencies.

Bryn Mawr, Haverford and Swarthmore Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 16,000,000 bytes of random access disk storage. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, IBM 2260 keyboard display terminals, and two small satellite computers, one with card input-output.

Program of Study

The program of study consists of selected seminars, courses or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a seminar, an undergraduate course for graduate credit, independent study in preparation for the Preliminary Examination, or a supervised unit of work.

A minimum of three academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy must complete three full years of graduate work which shall, with certain exceptions, include a minimum of six academic units at Bryn Mawr. Of these units at least one must be a unit of supervised work on the dissertation. The dissertation units may be part of the residence requirement or in addition to it.

The number of units required for the Doctor of Philosophy may be reduced to no less than four for those who have held academic appointments at Bryn Mawr College for two or more years. Students holding the A.B. degree from Bryn Mawr College shall offer a minimum of three units. The Council of the Graduate School of Arts and Sciences may, on recommendation of the departments, reduce the requirements for other students.

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School of Arts and Sciences, see the departmental offerings beginning on page 16.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or review recent publications in their field of study.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. The procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a library deposit, which is refundable, and fees for late

registration. Since the University of Pennsylvania opens early in September, Bryn Mawr students must make appropriate arrangements the previous spring.

Students enrolled in the program in the History and Philosophy of Science attend seminars at the American Philosophical Society and at the University of Pennsylvania and register for these at Bryn Mawr.

Summer Work

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Office of the Dean of the Graduate School of Arts and Sciences early in June.

Summer Institutes in France and Spain

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture at the *Institut d'Etudes françaises d'Avignon.* Certain courses carry graduate credit. For information write to Dr. Michel Guggenheim, Department of French, Bryn Mawr College.

For a similar summer program in aspects of Hispanic culture at the *Centro de Estudios Hispánicos* in Madrid write to Dr. Phyllis Turnbull, Department of Spanish, Bryn Mawr College.

Degree Requirements

The Graduate School of Arts and Sciences offers programs leading to the degrees of Doctor of Philosophy and Master of Arts.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Council of the Graduate School of Arts and Sciences.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. Graduates of other colleges must complete at least six academic units at the Graduate School of Arts and Sciences of Bryn Mawr College. Of these units, at least one must be a unit of supervised work on the dissertation. The dissertation units may be part of the residence requirement or in addition to it. The residence requirement may be reduced by the Council of the Graduate School of Arts and Sciences for candidates who have held academic appointments for two or more years at Bryn Mawr College and occasionally for others. Students who hold the A.B. degree from Bryn Mawr College must complete a minimum of three academic units at Bryn Mawr.

3. The recommendation of the student as a candidate by the director of the dissertation and the major Department and the acceptance of the recommendation by the Council of the Graduate School of Arts and Sciences. Application for candidacy, on a form to be obtained at the Office of the Dean of the Graduate School of Arts and Sciences, may be made as early as the spring of the student's first year provided that the student will have completed two units of graduate work at Bryn Mawr by the end of the semester.

4. Knowledge of the foreign languages, computer languages (such as FORTRAN, ALGOL, etc.), and special techniques (such as

Statistics) required by the individual departments. Students whose native language is not English must present evidence of proficiency in English. These requirements must be fulfilled before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the fields established for the candidate. This examination, consisting of several written examinations, and at the option of the Department, an oral examination, is intended to test the candidate's general knowledge of the major and allied fields rather than familiarity with particular courses.

6. The preparation of a dissertation worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject and contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree will be issued to students applying for candidacy.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Students whose native language is not English, except for those majoring in the language and literature of their native tongue, must present evidence of proficiency in English and are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the Department and accepted by the Council of the Graduate School of Arts and Sciences. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School of Arts and Sciences not later than December 1 of the academic year in which the candidate wishes to take the degree. The program of study must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major Department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Only one such course may be offered for the M.A. degree. Under certain circumstances advanced under-

graduate courses in science can be counted as seminars, subject to the approval of the Department and the Dean of the Graduate School of Arts and Sciences. Candidates may offer three units of work in one major Department, or two in a major Department and one in an allied field. Candidates whose major Department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the Department. Candidates not currently on campus must submit the paper by May 1 of the academic year of the degree.

5. Each candidate, after all other requirements have been completed, must pass a final examination.

6. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period (60 months).

Graduate Program in Arts and Sciences 1970-71

Graduate Seminars and Courses

Graduate seminars and courses vary from year to year. Brackets designate courses or seminars not given in the current year. Undergraduate courses which may be offered for graduate credit are listed by number. The letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year.

Special graduate requirements are listed under each Department. For the general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Anthropology

Professor: Frederica de Laguna PH D *Chairman*
Associate Professor: Jane C. Goodale PH D
Assistant Professor: Philip L. Kilbride PH D
Lecturer: Charles C. Kolb M A
Visiting Lecturer: A. Irving Hallowell PH D

Assistant Professor of German: Nancy C. Dorian PH D (Linguistics)

Prerequisites. A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

Allied Subjects. Allied subjects include Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Religion, History of Art, Linguistics, Philosophy, Political Science, Psychology and Sociology.

Language Requirements. Candidates for the M.A. or Ph.D. must offer two modern languages. Language skills may be tested by

either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for graduate credit. One of these may be in an allied subject. The Final Examination may consist of one four-hour written paper or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All Ph.D. candidates will be expected to become familiar with the principles of at least four of the following: (1) Prehistory or Archaeology of some major area, (2) Physical Anthropology and Human Paleontology, (3) Ethnology, (4) Linguistics, (5) History of Anthropology and Anthropological Theory. These requirements may be satisfied by courses approved by the Department, or competence tested by examination.

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. One of these examinations may be in an allied field.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Ethnology:

Oceania and Australia: Miss Goodale.
North America: Miss de Laguna (semester I).
[*Africa.*]
[*Meso-America.*]
[*Peasants.*]
[*Central Asia.*]
[*Ethnographic Methods.*]

Topics in Cultural and Social Anthropology:

Cultural Dynamics: Mr Kilbride (semester I).
History and Theory: Miss de Laguna (semester II).
Behavioral Evolution: Mr Hallowell (semester I).
[*Primitive Religion and World View.*]
[*Social Organization.*]
[*Psychological Anthropology.*]
[*Economic Anthropology.*]
[*Political Anthropology.*]

BRYN MAWR COLLEGE

Prehistory and Human Evolution:
Human Evolution and Cultural Beginnings: Mr Kolb (semester II).
[*Archaeology of North, Middle and South America.*]
[*Rise of Old World Civilizations.*]
[*Prehistory of Central Asia.*]

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 11).

SELECTED UNDERGRADUATE COURSES

203a. *Primitive Society:* Miss Goodale.
204. *American Archaeology:* Mr Kolb.
302b. *Cultures of Sub Saharan Africa:* Mr Kilbride.

Interdepartmental 308. *Introduction to Linguistics:* Miss Dorian.
[Interdepartmental 310. *Linguistic Techniques:* Miss Dorian.]
[Interdepartmental 312b. *Field Methods in Linguistics: Miss Dorian.*]

Biology

Professors: Robert L. Conner PH D *Chairman*
Jane M. Oppenheimer PH D

Assistant Professors: Anthony R. Kaney PH D
David J. Prescott PH D
Allen C. Rogerson PH D

Lecturers: Joseph Orkwiszewski M S
Patricia O. Pruett PH D *Associate Dean of the Undergraduate College*

Assistant Professor of Chemistry: J. Maitland Young M S M PHIL

Prerequisites. An undergraduate major in Biology, Zoology or Botany, including courses in General and Organic Chemistry. Some college level preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants should submit scores from the Graduate Record Examination Aptitude Test and the Advanced Test in Biology.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cell Biology, Cellular Physiology, Developmental Biology, Genetics, Molecular Biology, Microbiology or Plant Physiology, but must take work also from areas

not chosen for specialization. Allied subjects may be selected from fields in Chemistry, Physics and Psychology, and in special cases from other related fields, with the approval of the Council of the Graduate School of Arts and Sciences.

Language Requirements. Candidates for the M.A. degree should offer French or German. Candidates for the Ph.D. degree must offer two foreign languages. French and German (or some other language by special permission of the Department and the Council of the Graduate School of Arts and Sciences), or one foreign language and Statistics. The Statistics requirement will be tested by the Department or may be satisfied by passing a graduate course in Statistics at Bryn Mawr. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars and advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. The Final Examination consists of a four-hour written examination covering the areas of study, and a one-hour oral examination concentrating particularly on the interpretation and significance of the experimental problem and its relation to biology more generally.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

All seminars and advanced undergraduate courses arranged for seminar credit are offered for one semester each year. The topics considered in any semester are selected in accordance with the needs and desires of the students enrolled.

GRADUATE COURSES

Advanced Biochemistry: Mr Prescott, Mr Young (semesters I & II).

A course emphasizing the biophysical and biorganic aspects of biochemistry. A detailed treatment of protein chemistry and catalysis will be included. Two hours lecture. No laboratory. Prerequisites: Biology 353, Chemistry 203.

Statistics: (See offerings in the School of Social Work and Social Research and the Department of Psychology.)

Introduction to the Use of the Computer in the Analysis of Biological Problems: Mrs Pruett (semester II).

The course will consist of an introduction to programming technique and the use of the Fortran IV language with applications to biological and biochemical problems. After the development of basic programming concepts, the course will be concerned with the application of techniques such as the statistical analysis of research data by the use of the computer. Attention will also be given to the testing of the agreement between mathematical models for biological systems and the experimental results of measurements made upon these systems.

SEMINARS

Developmental Biology: Miss Oppenheimer (semester I).

A single topic, chosen by the students enrolled, will be discussed in depth during the semester. The majority of the meetings will be devoted to student discussions rather than formal presentations. Topics discussed during recent years have included: constancy and change during post-embryonic development; enzymes in development; nucleocytoplasmic interactions during cell differentiation; morphogenetic substances.

Genetics: Mr Kaney (semester II).

A study of current literature dealing with recent developments in genetic theory and problems. Students will prepare talks on topics selected from a list drawn up by the instructor. Discussion of talks will be included.

Molecular Biology: Mr Rogerson (semester II).

This seminar will deal with a limited number of topics chosen by the students. Possible topics include the regulation of RNA and protein synthesis, regulation of enzyme and of biosynthetic pathway activity, the mechanism and control of protein and nucleic acid synthesis.

Plant Physiology: Mr Orkwiszewski (semester I).

Photosynthesis: a review of work culminating in a two-photoact photosynthetic mechanism. Photomorphogenesis: a survey of certain phytochrome-mediated responses; a study of the pigment and its postulated modes of action. Plant hormones: the mechanism of hormone-action with emphasis on hormone-nucleic acid interactions.

Biochemistry: Mr Conner (semester I).

Membrane structure and function: After an analysis of the present state of knowledge about the chemical composition of membranes, known biological transport systems will be defined in terms of the current membrane models.

Mr Prescott (semester II).

The seminar will cover the theory and techniques employed for chemical peptide and protein synthesis. An examination of the potential use of peptides of known composition in the study of biological catalysis will be made.

Mr Young (semester II).

Topic to be announced.

ADVANCED UNDERGRADUATE COURSES

The following advanced undergraduate courses with supplemental work may be taken for graduate credit:

351a. *Problems in Genetics:* Mr Kaney.
352a. *Problems in Molecular Biology:* Mr Rogerson.
353. *Biochemistry:* Mr Conner, Mr Prescott, Mr Young.
354b. *Bacteriology and Immunology:* Mr Orkwiszewski.
355b. *Analysis of Development:* Miss Oppenheimer.
[356. *Biophysics:* Miss Hoyt.]

Journal Club. All members of the Department and the graduate students meet each week for a presentation of current research in Biology. Graduate students, faculty and outside speakers will participate.

Chemistry

Professors: Ernst Berliner PHD *Chairman*
Frank B. Mallory PHD[1]
George L. Zimmerman PH D
Associate Professors: Jay Martin Anderson PH D
Joseph Varimbi PH D
Assistant Professor: J. Maitland Young M S M PHIL
Lecturer: Frances Bondhus Berliner PH D

Fields of Study and Research. The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a

[1] On leave, 1970-71.

sound background in modern chemistry and to prepare men and women for a professional career in productive scholarship, research, and teaching in chemistry. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered around a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, isotope effects, the photochemical conversion of stilbenes to phenanthrenes, the chemistry of benzofurazan oxide, the use of nuclear magnetic resonance spectroscopy for structural organic problems, reactions in liquid ammonia and other non-aqueous solvents, photochemical cis-trans isomerizations, ultraviolet and vacuum ultraviolet absorption studies of hydrated transition metal ions, nuclear magnetic resonance as applied to nuclear relaxation and chemical exchange studies.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, biochemistry, chemical physics.

Prerequisites. An undergraduate preparation in Chemistry including courses in Inorganic, Analytical, Organic and Physical Chemistry, College Physics and Mathematics (Calculus).

Major and Allied Subjects. Students may specialize in Biochemistry, Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Mathematics, Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Council of the Graduate School of Arts and Sciences and on the recommendation of the Department. The typical work for the allied subject would be a year's course or seminar on an approved level.

Language Requirements. Candidates for the M.A. must offer German, French or Russian. Candidates for the Ph.D. may offer German and either French, Russian or demonstrated skill in digital computation, numerical analysis and the theory of error. This skill may be demonstrated *either* by a satisfactory grade in the Mathematics 220c course or its equivalent, *or* by an examination consisting of two parts, a practical part requiring the successful execution of a FORTRAN (or other equivalent language) program, and a written examination on numerical analysis and error theory.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Serv-

ice or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they began graduate work at Bryn Mawr.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Ph.D. students will normally be expected to devote a large proportion of their time to experimental or theoretical research, carried out under the direction of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, and a third, oral examination, which constitutes a defense of a number of research proposals previously submitted by the student. Four such proposals are required, two of which may be related to the student's thesis. The two written examinations will be from the candidate's major field. One will be a broad examination in the general aspects of the major field. The second will be in the special field of the candidate's research, with questions to include those testing familiarity with, and ability to interpret, material from the recent chemical literature of the candidate's special field. The proposition examination must be taken within one year after the first written examination. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty. The semi-

nars listed below are illustrative of those that have been offered in recent years.

Inorganic Chemistry: Mr Varimbi.
Recent Methods in Organic Synthesis: Mr Mallory.
Structure and Physical Properties of Organic Compounds: Mr Berliner.
Spectral Applications in Current Organic Chemistry: Mr Mallory.
Physical Organic Chemistry: Mr Berliner.
Natural Products: Mrs Berliner.
Physical Organic Aspects of Aromatic Chemistry: Mr Berliner.
Organic Photochemistry: Mr Mallory.
Chemistry of Heterocyclic Compounds: Mrs Berliner.
Introduction to Chemical Physics: Mr Zimmerman.
Introduction to Molecular Spectroscopy: Mr Anderson.
Intermediate Quantum Mechanics: Mr Anderson.
Photochemistry: Mr Zimmerman.
Theory of Electrolytic Solutions: Mr Varimbi.
Applications of Group Theory in Quantum Mechanics: Mr Zimmerman.
Nuclear Magnetic Resonance: Mr Anderson.
Statistical Thermodynamics: Mr Varimbi.
Chemistry of Biological Systems: Mr Young.
Physical Chemistry of Proteins and Nucleic Acids: Mr Young.
Chemistry of Coenzymes: Mr Young.

For additional seminars in Biochemistry, see Biology.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in Chemistry, usually by outside speakers.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

301b. *Advanced Inorganic Chemistry:* Mr Varimbi.
302. *Advanced Organic Chemistry:* Mrs Berliner, Mr Berliner.
303. *Advanced Physical Chemistry:* Mr Zimmerman.
353. *Biochemistry:* Mr Conner, Mr Prescott, Mr Young.

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink PH D *Chairman*
Brunilde S. Ridgway PH D
Associate Professor: Kyle M. Phillips, Jr. PH D
Lecturer: Carl Nylander PH D

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin, Ancient History, or History of Art. It is expected that students of Classical and Near Eastern Archaeology will have a basic knowledge of Greek and Latin. Students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses during their first year in graduate school.

Allied Subjects. Greek, Linear B, Latin, Akkadian, Hebrew, Hittite, Egyptian; History of Art, Ancient History, Anthropology, a science related to the archaeological program of the candidate.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of Greek or a Near Eastern ancient language. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The final examination is written (three hours) and oral (one hour).

Program and Examinations for the Ph.D. The students spend the first two years in residence, participating in seminars and preparing for the Preliminary Examination. The third year is usually spent at the American School of Classical Studies in Athens or at another archaeological research center abroad. Museums in Europe and the Near East are visited during this year, and participation in excavations is arranged when possible (see below).

The Preliminary Examination, normally taken at the end of three years of graduate work, consists of four four-hour papers in selected fields such as Greek and Roman sculpture, architecture, monumental painting, Greek vase-painting, numismatics, Aegean prehistory, prehistory of Western Asia, Mesopotamian art and archaeology, the archaeology of Anatolia or Syria. One of the papers may be written in an allied field. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Excavations. The Department currently sponsors two excavation projects:

I. An investigation of the Bronze Age habitation of ancient Lycia, in progress since 1963 at the third millennium B.C. site of Karatash near Elmali.* Advanced graduate students participate in this excavation which is organized as a field seminar during the fall term with full graduate credit. The program provides instruction in excavation and field techniques and gives an opportunity to visit other sites, excavations and museums in Turkey, with discussion of the problems of the Bronze Age in the Aegean and Anatolia. The final publication will be prepared on the basis of the joint field reports by the participants.

II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. The work takes place during the summer and offers qualified graduate and undergraduate students training in excavation techniques while participating in the study of a townsite and necropolis of the sixth century B.C.†

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The following seminars are offered in 1970-71:

Miss Mellink:

Problems in Minoan Archaeology (semester I).
Problems in Aegean Archaeology (semester II).

Mrs Ridgway:

Problems of Archaic Architecture (semester I).
Architectural Sculpture (semester II).

Mr Phillips:

Etruscan Archaeology of the Archaic Period (semester I).
Etruscan Archaeology: Hellenistic and Roman Periods (semester II).

* cf. *American Journal of Archaeology* 68 (1964) 269-278; 69 (1965) 241-251; 70 (1966) 245-257; 71 (1967) 243-263; 72 (1968) 243-263; 73 (1969) 319-331.

† cf. *American Journal of Archaeology* 71 (1967) 133-139; 72 (1968) 121-124; 73 (1969) 333-339.

Mr Nylander:

Problems in Achaemenian Archaeology (semester I).
Problems in Achaemenian and Greek Archaeology (semester II).

ADVANCED UNDERGRADUATE COURSES

201b. *Egypt and Mesopotamia:* Miss Mellink.
202b. *Ancient Greek Cities and Sanctuaries:* Mrs Ridgway.
203a. *Greek Sculpture:* Mrs Ridgway.
203b. *Roman Sculpture:* Mr Phillips.
[205b. *Aegean Archaeology:* Miss Mellink.]
301a. *Greek Vase-Painting:* Mr Phillips.
301b. *Greek Architecture:* Mrs Ridgway.
[303. *Anatolian and Syrian Archaeology:* Miss Mellink.]
304a. *Ancient Monumental Painting:* Mr Phillips.

Comparative Philology and Linguistics

Professor of English: Robert B. Burlin PHD
Professor of Spanish: Joaquín González Muela *D en F L*
Assistant Professor of German: Nancy C. Dorian PHD

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German and Spanish.

ADVANCED UNDERGRADUATE COURSES

Interdepartmental 308. *Introduction to Linguistics:* Miss Dorian.

Language in the social context: human versus animal communication; childhood language acquisition: bilingualism; regional dialects; usage and the issue of "correctness"; social dialects; speech behavior in other cultures.

[Interdepartmental 310. *Introduction to Linguistic Techniques:* Miss Dorian.]

Introduction to techniques of linguistic analysis; typology, phonetics, phonemics, morphemics, syntax; generative grammar; historical and comparative linguistics; writing systems and literacy.

[Interdepartmental 312b. *Field Methods in Linguistics:* Miss Dorian.]

Practical experience in transcription and analysis of an unfamiliar language. There will be an informant, and students will be able to develop their own methodology for approaching a language with which they have no previous experience.

Economics

Professor: Joshua C. Hubbard PH D *Chairman*
Associate Professor: Richard B. Du Boff PHD
Appointment to be announced

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Applicants with majors in other disciplines will be admitted but may first be required to pass a qualifying examination, consisting of a three-hour paper in theoretical economics at the level maintained for final-year undergraduates in Economics at Bryn Mawr College. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as the Department thinks necessary. Under certain conditions, such work may receive graduate credit.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable as allied work. Mathematics, Statistics, and Accounting are not only acceptable as allies but are necessary to advanced work in Economics. Courses in these subjects, when not offered at Bryn Mawr, may be taken at the University of Pennsylvania under the Reciprocal Plan.

Language Requirements. Candidates for the M.A. and Ph.D. must show reading proficiency in one modern language and competence in Statistics and Econometrics. The statistics-econometrics requirement will be tested by the Department or may be satisfied by passing a graduate course at a satisfactory level.

Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program of Study for the M.A. It is expected that the work for the M.A. degree will require not less than one calendar year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, supervised units) prior to submitting the M.A. research paper. One of these units must be

in Economic Theory, one in Statistics and Econometrics, and one in the student's special field of interest (e.g., Economic Development, Money and Banking, Economic History). Course examinations in each of these three fields must be passed before the candidate presents the research paper. After acceptance of the paper a final examination, consisting of a written paper and a brief oral examination, must be passed.

Admission to the Ph.D. Program. Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed or are about to complete six full units of graduate work at Bryn Mawr, which are to include the completion of the Bryn Mawr M.A. program. All candidates are expected to take the equivalent of at least one year of graduate work at another institution approved by the Department.

Program of Study for the Ph.D. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. examinations. The Preliminary Examination will consist of four three-hour written papers and an oral examination; one of the written papers will be in Economic Theory and one in Economic History; the other two papers will be in fields related to the candidate's major interest. The Final Oral, taken after the dissertation has been accepted, will be devoted to the subject matter of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Du Boff:
Comparative Economic Systems and Philosophies.
Economic Development: the United States and Western Europe.

Mr Hubbard:
Macroeconomic Theory.
Fiscal-Monetary Theory and Policy.

Instructor to be announced:
Statistics and Econometrics.

SELECTED UNDERGRADUATE COURSES

201a. *Economic History and Development.*
205b. *Private Enterprise and Public Policy.*
207a. *Money and Banking.*
[212b. *Comparative Economic Systems.*]
216b. *Western European Economic Development.*

Education and Child Development

Professor: Rachel D. Cox PHD *Chairman*
Professor and Director, Child Study Institute: Janet L. Hoopes PHD
Associate Professor and Director, Thorne School: Susan E. Maxfield MS
Associate Professor: Ethel W. Maw PHD
Assistant Professors: Emmy A. Pepitone PHD
Faye P. Soffen PHD
Instructor: Beth Riser MA

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling, for teaching in the schools and for early childhood education. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed.

Bryn Mawr College has program approval from the state Department of Education. This makes it possible for students who have satisfactorily completed the prescribed program of professional work to receive certification to teach in the secondary schools of the Commonwealth of Pennsylvania. Prerequisite to acceptance for the teaching certification program is a strong liberal arts preparation in the subject for which the candidate seeks certification. State approved programs in school psychology and in elementary and secondary school counseling lead to certification on the recommendation of the Department of Education and Child Development to the state Department of Education.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: Child Development, Clinical Evaluation, Counseling and Guidance, Early Childhood Education, History and Philosophy of Education, Learning, the School as a Social Institution, Secondary Education. For the M.A., two fields are required. For the Ph.D., five fields must be

presented. One allied subject may be chosen from the fields of Psychology, Anthropology, Sociology or Philosophy.

Requirements in Languages and Statistics. For the M.A., students are required to pass an examination in one modern foreign language and demonstrate a working knowledge of descriptive and inferential statistics. For the Ph.D., students are required to pass an examination demonstrating reading knowledge of one modern foreign language and competence in statistics through multiple correlation and factor analysis. An exception to this is the case of students who offer History and Philosophy of Education as one of the major fields. Such students must demonstrate a reading knowledge of two foreign languages, one of which shall be modern, one classical. These students must also satisfy a statistics requirement, the level of the requirement to be set by the nature of the student's total curriculum. The statistics requirement for both degrees may be satisfied by passing an examination or by passing an appropriate course at a satisfactory level. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers. One of the written papers may be in an allied field. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

The Phebe Anna Thorne School and The Child Study Institute. The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early child development. Students preparing for early childhood education spend substantial blocks of time in the Thorne School.

The Department also operates at the College the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried out with parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, neurological and pediatric departments of the Bryn Mawr Hospital, from physicians, social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, individual and group therapy and student observation.

SEMINARS

The seminars offered are selected from the following (in most cases, laboratory practice is required):

Mrs Cox:
Advanced Clinical Evaluation
(including the Projective Techniques).
The Individual.

Miss Hoopes:
Critical Issues in Child Development.
Adolescent Development.

Miss Maxfield:
Developmental Psychology.
Early Childhood Education.

Mrs Maw:
Educational Psychology.
Curriculum of the Elementary School.
Research and Measurement in Education and Child Development.

Mrs Pepitone:
History and Philosophy of Education.
The Social Psychology of the School.
Analysis of Social Structure and Interaction in the Classroom.

Mrs Soffen:
Principles and Organization of the Guidance Program.
The Counseling Process: Theory and Practice.
The Group Process in Counseling and Guidance.
The Psychology of Occupations.

Mrs Riser:
The Psychology of Exceptional Children.
The Diagnosis and Remediation of Learning Disabilities.
The Treatment of Reading Disorders.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology:* Mrs Maw.]
206a. *Child Psychology:* Mrs Cox.
301a. *Principles of Teaching in the Secondary School:* Mrs Maw.
302a. *Principles of Teaching in the Elementary School:* Mrs Maw.
308b. *Psychology of the Abnormal Personality:* Mrs Cox.

Course numbers 301a and 302a satisfy the student-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements can be made. Supervised teaching: 12 hours per week.

English

Professors: Robert B. Burlin PHD *Chairman*
K. Laurence Stapleton AB
Associate Professors: Thomas H. Jackson PHD
Joseph E. Kramer PHD
Assistant Professors: Roger W. Cummins PHD
Gwenn Davis PHD
June Q. Koch PHD
Clifford Earl Ramsey PHD[1]
Lecturers: Sandra I. Kohler MA
Adrienne Lockhart MA
Irma S. Lustig PHD
Instructor: Anthony J. Litwinko MA

Prerequisites. An undergraduate major in English or its equivalent. Students should have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy. All applicants should submit scores in the Aptitude Test of the Graduate Record Examination.

Allied Subjects. Any classical or modern European language and literature; Philosophy; medieval or modern History; and History of Art.

Language Requirements. For the M.A. degree, a knowledge of either French or German, adequate to the reading of basic scholarly and literary texts. To proceed to the Ph.D., the student must either pass examinations in both French and German, or demonstrate superior competence in one by satisfactorily completing one unit of graduate work in that language or its literature at Bryn Mawr. In special cases, with the approval of the appropriate language department and of the Department of English, equivalent work at another university may be accepted. When it can be justified in connection with the proposed field of specialization, the student may substitute graduate work in another foreign language, ancient or modern, for *one* of the examinations. Students working toward the doctorate are also required to show evidence of an adequate knowledge of Latin or Greek. It is expected that the student will satisfy these requirements early in his second year of graduate study; they must be completely satisfied before the doctoral candidate may present himself for the Preliminary Examination.

[1] On leave, 1970-71.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examinations for the M.A. Three units of work in English or two in English and one in an allied field. The M.A. paper is due on May 1. The Final Examination is written, four hours in length, and on the general field of the M.A. paper.

Program and Examinations for the Ph.D. Work of the Department is carried through small seminars and supervised units of independent study. Six units of graduate work are required, one of which may be in an allied field. Candidates will be expected to spend at least one year in full-time graduate work. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted.

After acceptance for doctoral candidacy, the student will take a Preliminary Examination in five parts: four written (four hours each) and an oral (one or two hours). One written examination may be in an allied field. The choice of the four fields will be determined by the student in consultation with the Graduate Advisor and the departmental examiners who will form the Supervising Committee. The candidate is expected to demonstrate a balanced knowledge of different periods.

Before proceeding with the dissertation, it is recommended that the doctoral candidate submit a prospectus to be discussed with the departmental members of the Supervising Committee. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Since most seminars run through the year, students must begin work in the first semester.

Mr Burlin:
Chaucer.
[*Old English Literature.*]
[*Middle English Literature.*]

Mr Kramer:
Shakespeare in his Age.

Miss Stapleton:
[*Milton.*]
Studies in Poetry.

Mr Ramsey:
[*Studies in Restoration and Eighteenth Century Literature.*]
[*English Prose Fiction from Bunyan to Jane Austen.*]
[*Augustan Poetry.*]

Mrs Koch:
Studies in Romantic Poetry.

Mr Cummins:
Studies in American Literature.
[*Nineteenth Century English and American Novel.*]

Mr Jackson:
Studies in Twentieth Century Literature.

SELECTED UNDERGRADUATE COURSES

217a. *English Prose of the Sixteenth Century:* Miss Davis.
228a. *Modern Drama:* Mr Kramer.
257. *Nineteenth Century English Novel:* Mrs Lockhart
285b. *The Art of Biography:* Mrs Lustig.
311b. *Studies in Sixteenth Century Poetry:* Miss Davis.
330. *The Seventeenth Century:* Miss Stapleton.
346a. *The Age of Johnson:* Mrs Lustig.
352a. *Theory and Structure in the Poetry of the Nineteenth Century:* Mrs Koch.
354b. *Selected Victorian Texts:* Mr Litwinko.
389b. *Studies in Twentieth Century Criticism:* Mr Jackson.

French

Professors: Michel Guggenheim PH D *Chairman*
Mario Maurin PH D
Visiting Professor: William J. Roach PH D
Associate Professors: Gérard Defaux, *Agrégé*
M. Pauline Jones PH D[1]
Assistant Professor: Catherine Lafarge PH D[2]
Visiting Lecturers: Lucienne Frappier-Mazur, *Agrégée*
Serge Serodes, *Agrégé*

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some

[1] On leave, semester I.
[2] On leave, 1970-71.

advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school is advisable.

Major and Allied Subjects. Students specialize in French Literature from the Renaissance to the present. Successful completion of a course in Old French Philology and Literature is required of Ph.D. candidates. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. For the M.A. degree, one Romance language, or German, or evidence of extensive training in Mediaeval Latin or advanced Latin. For the Ph.D. degree, a reading knowledge of two languages (including one Romance language other than French), or at least one unit of graduate work in a Romance literature other than French, or in German literature. Students may satisfy the latter requirement by completing satisfactorily one unit of graduate work at Bryn Mawr. In special cases, with the approval of the appropriate language department, and of the Department of French, equivalent work at another university may be accepted.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. The Final Examination is oral and covers the field in which the dissertation has been written.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

An introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of French Literature are given each year, so arranged that the same one will not be given in successive years. The semi-

nars, which are conducted in French, are selected from the following:

Mr Roach: *Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique.*

Mr Defaux: *Villon, Charles d'Orléans, Marot* (1970-71).
Rabelais, Montaigne.
Les Conteurs au XVI^e siècle (1970-71).

Mr Guggenheim: *Précieux, mondains et moralistes du XVII^e siècle* (1970-71).
Rousseau et le Préromantisme.
Voltaire (1970-71).
Stendhal.

Miss Jones: *Baudelaire.*
Verlaine, Rimbaud, Laforgue.
Scève, Mallarmé.

Miss Lafarge: *Diderot.*
Le Thème de Paris dans la littérature française.
Le Thème de la prison au XIX^e siècle.
Marivaux, Giraudoux.

Mr Maurin: *Travaux Pratiques sur la littérature actuelle* (1970-71).
Réalisme et Naturalisme.
Valéry, Claudel, Proust, Gide.
Montherlant, Giono (1970-71).

Mr Serodes: *Méthodologie critique* (1970-71).

SELECTED UNDERGRADUATE COURSES

302a. *Le Théâtre tragique au XVII^e siècle:* Mr Maurin.
302b. *Le Théâtre du XX^e siècle:* Miss Jones.
303a. *Le Roman du XX^e siècle:* Mr Guggenheim.
303b. *Le Roman du XVIII^e siècle:* Mr Defaux.
[304. *French Essayists and Moralists:*
Mr Guggenheim, Mr Maurin.]
305a. *Balzac:* Mrs Frappier-Mazur.
305b. *Autobiographies de Chateaubriand à Sartre:* Mr Maurin.

Courses offered at the Avignon Institute

Molière or *Racine.*
Les Fleurs du Mal or *Rimbaud.*
Le Surréalisme.
Travaux de traduction et de stylistique.

Geology

Professors: Edward H. Watson PH D *Chairman*

Associate Professor: Lucian B. Platt PH D

Assistant Professors: Maria Luisa B. Crawford PH D
William A. Crawford PH D
W. Bruce Saunders PH D

Prerequisites. A course in general Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. degree, one of the following: Russian, German, or French. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French; or one foreign language from this list and proficiency in digital computation, numerical analysis and the theory of error. This proficiency may be demonstrated either by a satisfactory grade in Interdepartmental Course 220c or its equivalent or by an examination to be administered by the Department.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with laboratory study. The number of units of course work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Three or four seminars are offered each year, to be selected from the following:

Mr Watson, Mr Crawford: *Petrology.*
Selected subjects in the structure, physical chemistry and origin of rocks.

Mr Platt: *Structural Geology.*
Modern techniques and concepts in structural analysis.

Mr Watson, Mrs Crawford: *Mineralogy.*
The optical, chemical and X-ray study of selected mineral groups.

Mr Saunders: *Sedimentary Petrology.*
A study of the constitution and the origin of sedimentary rocks; their source, transportation and deposition.

Mrs Crawford: *Metamorphism* (semester I).
The physical and chemical processes of metamorphism, accompanied by regional studies. Instruction on the universal stage and a study of petrofabrics may be included.

Mrs Crawford: *Optical Mineralogy—Petrography.*
Semester I: Crystal optics and the properties of the rock-forming minerals. Semester II: A microscopic study of igneous, sedimentary and metamorphic rocks.

Mr Crawford: *Geochemistry.*
Experimental physical chemistry, phase equilibria, and the distribution and behavior of the elements as applied to geologic problems.

Mr Crawford: *Analytical Techniques.*
Laboratory course in wet chemical and instrumental means of silicate analysis. Mechanical separations and experimental petrology.

Mr Saunders: *Paleontology.*
A study of selected animal groups in geologic time according to the interests and needs of the students.

SELECTED UNDERGRADUATE COURSES

201a. *Crystallography:* Mrs Crawford.
201b. *Mineralogy:* Mr Watson.
202. *Paleontology:* Mr Saunders.
[203. *Physiography:* Mr Watson, Mr Crawford.]
301a. *Structural Geology:* Mr Platt.
301b. *Tectonics:* Mr Platt.
302. *Stratigraphy:* Mr Platt, Mr Saunders.
303a. *Introduction to Geochemistry:* Mr Crawford.
304b. *Introduction to Petrology:* Mr Crawford.
305b. *X-ray Crystallography:* Mrs Crawford.

German

Professor: Hans Bänziger PHD, *Chairman*
Assistant Professor: Nancy C. Dorian PHD
Visiting Professor: Franz H. Mautner PHD
Lecturers: Katrin Taeger Bean PHD
James W. Scott MA

Prerequisites. An undergraduate major or minor in German or an equivalent preparation. Applicants should submit scores in the Aptitude Test and Advanced Tests of the Graduate Record Examinations.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject. Graduate students are encouraged to acquaint themselves with the theory and practice of teaching German.

Language Requirements. Normally French for the M.A.; French and another language for the Ph.D., preferably Latin. With the approval of the Department, the satisfactory completion of a graduate seminar at Bryn Mawr in a foreign literature other than German can be offered for one language requirement. In special cases, with the approval of the appropriate language department, and of the Department of German, equivalent work at another university may be accepted.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units in German literature or in German literature and an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philol-

ogy. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, Middle High German, structural linguistics, and one of the following: Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Topics from the following fields are selected each year according to the needs of students:

Mr Bänziger:

Modern German Literature.
Nineteenth Century German Literature.
Modern German Drama.

Miss Dorian:

Old High German.
History of the German Language.
Introduction to German Philology.

Mr Mautner:

Enlightenment.
Comedy.
Theory of Literature.

Mr Scott:

Middle High German Literature.
Reformation and Humanism.
Contemporary German Poetry.

SELECTED UNDERGRADUATE COURSES

[300a. *German Literature from the Beginnings to the Baroque:* Mr Scott.]

[301b. *Introduction to Germanic Philology:* Miss Dorian.]

[302b. *German Language and Literature of the Middle Ages:* Mr Scott.]

303b. *The Modern German Novel:* Mr Scott.

[304b. *The German "Novelle":* Mr Bänziger.]

[305. *The German Drama:* Mr Bänziger.]

306a. *German Poetry:* Mr Bänziger.

Preparatory course for degree candidates in other Departments:

Reading German. This course, which does not carry academic credit, is designed to assist students in meeting the language requirements for advanced degrees. An extra charge will be made.

Greek

Professors: Mabel L. Lang PH D *Chairman*
Richmond Lattimore PHD LITT D
Assistant Professor: Gregory W. Dickerson M A

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German for both the M.A. and the Ph.D. Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek

sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry (with emphasis on Homer), Lyric Poetry (with emphasis on Pindar), Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Miss Lang: *The Iliad of Homer* (semester I).
Aristotle's Athenaion Politeia (semester II).

Mr Lattimore: *Aeschylus' Oresteia* (semester I).
The Odyssey of Homer (semester II).

SELECTED UNDERGRADUATE COURSES

101. *Herodotus and Tragedy:* Miss Lang, Mr Lattimore, Mr Dickerson.

102a. *Homer:* Mr Dickerson.

201. *Plato and Thucydides; Hesiod and Tragedy:* Mr Dickerson, Mr Lattimore.

301. *Lyric Poetry; Aeschylus and Aristophanes:* Mr Lattimore, Mr Dickerson.

History

Professors: Arthur P. Dudden PHD *Chairman*
Elizabeth Read Foster PHD *Dean*
Caroline Robbins PHD
J. H. M. Salmon M LIT LITD
James Tanis THD *Director of Libraries*

Associate Professors: Charles M. Brand PHD
Mary Maples Dunn PHD
Barbara M. Lane PHD
Alain Silvera PHD

Assistant Professors of the History of Science: Mark Adams M A
Charles A. Culotta PHD

Professor of History of Religion: Howard C. Kee PHD

Assistant Professor of Greek and Latin: Gregory W. Dickerson M A

Assistant Professor of Latin: Russell T. Scott PHD[1]

[1] On leave, 1970-71.

Prerequisites. A good undergraduate preparation in History, the humanities and the social sciences. Students who wish to work in the ancient or mediaeval fields must be able to read the essential ancient languages. Those planning work in Modern European History or American History must have a reading knowledge of one modern language, preferably French or German, upon entrance. Those planning doctoral programs should have two languages upon entrance or acquire the second language at once.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages, to be determined by the Department, by the end of their second academic year of graduate work. Students entering with the M.A. must complete these requirements during their first year at Bryn Mawr. The time limit for part-time students is determined by the academic year, not by the number of units completed. Candidates for the Ph.D. in ancient or mediaeval history must also demonstrate ability to read one classical language. Directors of research may also require demonstration of ability in special techniques.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field, together with a paper and a final examination. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject, and also in the field of the projected dissertation to satisfy the Department of the student's competence to undertake research. For example, allied work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in Modern European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination. The Final Examination covers the field of the dissertation.

Fields of Specialization Available. Master's and doctoral programs should be developed from seminars and courses available. Research for theses and dissertations should grow out of seminars and units offered by the History Department and those departments allied with it.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students. The designation of the academic year indicates current offerings.

Ancient History

Students should consult pages 42 and 51 where the offerings of the Departments of Greek and Latin are listed.

Mediaeval and Renaissance History

Mr Brand: *Topics in the Middle Ages.*
The Fifth and Sixth Centuries.
The Carolingians.
The Twelfth Century (1970-71).

Early Modern European History

Mr Salmon: *French Political Ideas from the Wars of Religion to the Enlightenment* (1970-71).
Readings in Eighteenth Century Historiography.
Mr Tanis: *The Reformed Reformation in Northern Europe.*

British History

Mrs Foster: *Parliament in the Early Stuart Period* (semester I, 1970-71).
Social and Economic History of the Early Stuart Period.
Miss Robbins: *Victorian and Edwardian England* (1970-71).

American History

Mr Dudden: *The Progressive Era* (1970-71).
The New Deal.
The United States in the Second World War.
Mrs Dunn: *Seventeenth Century America.*
Eighteenth Century America (1970-71).

Modern European History

Mrs Lane: *Modern Germany:*
National Socialism (semester I, 1970-71).
Bauhaus (semester II, 1970-71).
Topics in the History of Twentieth Century Europe.
Mr Silvera: *The French Third Republic.*

Methodology and Historiography

Miss Robbins: *The Methods and Writings of Historians.*

SELECTED UNDERGRADUATE COURSES

300 level courses may, with additional work, be offered for graduate credit.

205a. *The Ancient Near East:* Miss Mellink.
205b. *Ancient Greece:* Miss Lang.
206a. *Roman History:* Mr Damski.
209. *Early American History:* Mrs Dunn.
211b. *Mediaeval Mediterranean World:* Mr Brand.
230. *A History of the Afro-American People:* Mr Aptheker.
260. *Germany since 1815:* Mrs Lane.
302. *France, 1559-1661:* Mr Salmon.
303. *Recent History of the People of the United States:* Mr Dudden.
310b. *Mexico:* Mrs Dunn.
314. *History of Science:* Mr Culotta.
320a. *Holland's Golden Age:* Mr Tanis.
321b. *Revolution within the Church:* Mr Tanis.
330. *France since 1870:* Mr Silvera.
370a. *The Great Powers and the Near East:* Mr Silvera.

History and Philosophy of Science

Director: José María Ferrater Mora *Lic F L* (Philosophy)

Advisory Committee: Jane M. Oppenheimer PH D (Biology)
Ernst Berliner PH D (Chemistry)
Mary Maples Dunn PH D (History)

Assistant Professors: Mark Adams M A (History of Biology)
Charles A. Culotta PH D (History of Biology)

Visiting Lecturers: Russell K. McCormmach PH D
(History of Physics)
Arnold W. Thackray PH D (History of Chemistry)

This program within the Department of History has been developed in collaboration with the American Philosophical Society and the Department of the History and Philosophy of Science at the University of Pennsylvania. Courses taken at any of the participating institutions may be credited toward an advanced degree.

Prerequisites. Undergraduate preparation in science, philosophy, and history.

Major and Allied Subjects. The student's major subject will be History of Science, to be supported by intensive work in the field of history related to his special area of interest. Allied subjects may be philosophy and other areas in science and history.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages to be determined by the Department before taking the Preliminary Examination.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of at least two units of work in the History of Science and one unit of work in a related field of History or Philosophy. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. The Preliminary Examination tests the student's competence in four general fields, three in the History of Science and one in a related field of History or Philosophy. The Final Examination covers the field of the dissertation which must be in History of Science.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Adams: *Science and Politics in Russia*
(semester I at Bryn Mawr College).

Mr Culotta: *History of Biology:*
Evolutionary Thought (semester I at Bryn Mawr College).
Biological Sciences of Nineteenth Century Germany
(semester II at the University of Pennsylvania).

Mr McCormmach: *History of Physics:*
American Science (semester I at the University of Pennsylvania).
History of Physics (semester II at the University of Pennsylvania).

Mr Thackray: *History of Chemistry:*

Aspects of Chemical History (semester I at the University of Pennsylvania).

Chemistry and Society since 1800 (semester II at Bryn Mawr College).

Science and the Industrial Revolution (semester II at the University of Pennsylvania).

Seminar in History of Medicine: Members and staff of the American Philosophical Society and guest speakers; *Disease and Society: Historical Perspectives* (at the School of Medicine, University of Pennsylvania).

UNDERGRADUATE COURSE

314. *History of Science:* Mr Culotta.

History of Art

Professor: Charles Mitchell B LITT LITT D[1]

Associate Professors: James E. Snyder M F A PH D *Acting Chairman*
Charles G. Dempsey M F A PH D

Assistant Professor: Arthur S. Marks PH D

Lecturer: Robert W. Gaston D PHIL

Associate Professor of History: Barbara M. Lane PH D

Field of Study. The history of Western art from Early Christian to modern times.

Prerequisites. The normal prerequisite for admission is undergraduate training in art-history, but students with special abilities or sound training in cognate disciplines are exceptionally admitted.

Language Requirements. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian. Both M.A. and Ph.D. candidates are required to prove by examination their knowledge of two modern foreign languages.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educa-

[1] On leave, 1970-71.

tional Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Allied Subjects. History, Archaeology, Classics, Modern Languages; others, exceptionally, by arrangement.

Program for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) a written (or written and oral) examination to test the candidate's ability to place this topic in its art-historical context.

Program for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examination consists of four written papers and an oral examination on four areas of art-history (or on three and one allied subject). After two or three years at Bryn Mawr, students normally go abroad for a period of research on their dissertations.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

SEMINARS AND GRADUATE COURSES

Four one-term seminars, on widely spaced topics that change from year to year, are annually given, in addition to individual units of supervised work. Graduate students are sometimes advised to take selected intermediate or advanced undergraduate courses. Topics for 1970-71:

Mr Snyder: *Problems in Early Dutch Painting* (semester I).

Mr Dempsey: *Problems in Renaissance Iconography* (semester I).

Mr Gaston: *Problems in Early Mediaeval Art* (semester II).

Mr Marks: *Benjamin West and his Circle* (semester II).

Mrs Lane: *The Bauhaus* (semester II).

ADVANCED UNDERGRADUATE COURSES

321a. *Topics in Early Mediaeval Art:* Mr Gaston.

322b. *Late Gothic Painting in Northern Europe:* Mr Snyder.

323b. *Titian:* Mr Dempsey.

324a. *Problems in Modern Architecture:* Mr Marks.

History of Religion

Professor of History of Religion:
Howard C. Kee PHD *Chairman*

Professor of Philosophy: Jean A. Potter PHD

Director of Libraries and Professor of History:
James R. Tanis TH D

Visiting Lecturer in History of Religion: Samuel Tobias Lachs PHD

A degree program at the graduate level is not offered in History of Religion. For work in this area, students should consult the offerings of the Department of History. The courses listed below are open to graduate students, and may be taken for graduate credit with permission of the major department.

UNDERGRADUATE COURSES

207a. *Jesus and the Gospel Tradition:* Mr Kee.
208b. *Paul and the Rise of Gentile Christianity:* Mr Kee.
210b. *Mediaeval Philosophy:* Miss Potter.
[301a. *Gnosticism:* Mr Kee.]
302a. *Readings in the Greek New Testament:* Mr Kee.
[302b. *Jewish Antecedents of Early Christianity:* Mr Kee.]
303b. *Myth and History:* Mr Kee.

Italian

Lecturers: Nicholas Patruno MA
Elizabeth Welles MA

No graduate work is offered in Italian. The courses listed below are open to graduate students and may be taken for graduate credit with the permission of the major department.

201. *Classics in Italian Literature:* Mrs Welles.
[301. *Dante:* Mr Patruno.]
[303. *Italian Literature of the Rinascimento.*]
304. *Italian Literature of the Romantic Period:* Mr Patruno.

Latin

Professor: Agnes Kirsopp Michels PH D *Chairman*
Associate Professor: Myra L. Uhlfelder PH D
Assistant Professors: Russell T. Scott PH D[1]
Gregory W. Dickerson M A
Instructor: Jon-Henri Damski M A

Prerequisites. An undergraduate major or minor, consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, Ancient History, Linguistics, or, for students whose special interest is in the Mediaeval period, Mediaeval History or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit, graduate or undergraduate, in an allied field. Students will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be those offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examination as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examination consists of: two four-hour written papers on Latin Literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Mediaeval Latin Literature, Epigraphy, Palaeography, the History of Classical Scholarship; one four-hour written paper in the field of the allied subject; a general

[1] On leave, 1970-71.

oral examination. Students whose major interest is in the Mediaeval period will take the two examinations in Latin Literature, one in Mediaeval Latin Literature, and a fourth in a field related to the Middle Ages or to the transmission of the Classics. Before admission to the Preliminary Examination, all students must pass tests in sight translation of Latin and Greek. The Final (oral) Examination will be on the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Seminars will be selected in a sequence planned so that candidates for the doctorate will distribute their work over the following four groups. Seminars run for one semester unless noted.

Group I—*Republican and through the Augustan Age:*
Roman Comedy.
Elegy.
Lucretius.
Catullus.
Cicero's Letters and Orations.
Cicero's Philosophical Works.
Historiography from the Later Republic through the Augustan Age (two semesters).
Augustan Poetry (two semesters).

Group II—*Silver Age through the Antonine Period:*
Silver Age Poetry (two semesters).
Tacitus.
Roman Satire.
Petronius and Apuleius.

Group III—*Late Empire and Middle Ages:*
History of the Late Empire.
Literature of the Late Empire.
The Platonic Tradition in the West (Late Empire and Middle Ages).
Latin Literature of the Early Mediaeval Period (two semesters).
Latin Literature of the Twelfth Century (two semesters).

Group IV—
Proseminar: Background Reading.
The Classical Tradition: Scholarship and the Transmission of Texts (two semesters).
Roman Rhetoric (two semesters).
Roman Topography and Monuments.

SELECTED UNDERGRADUATE COURSES

301a. *Vergil's Aeneid:* Mrs Michels.
301b. *Livy and Tacitus:* Mr Damski.
[302a. *Lucretius:* Mrs Michels.]
[302b. *Cicero and Caesar:* Mr Scott.]

Mathematics

Professors: John C. Oxtoby MA *Chairman*
Frederic Cunningham, Jr. PHD
Associate Professor: Ethan D. Bolker PHD
Assistant Professor: Martin Avery Snyder PHD

Prerequisites. A good undergraduate preparation in Mathematics or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twenty-four months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It usually includes also an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses or directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only.

Mr Bolker:

Hilbert Space.
Topological Groups.
Banach Algebras.

Mr Cunningham:

Functional Analysis.
General Topology.
Linear Spaces.
Theory of Functions.

Mr Oxtoby:

Ergodic Theory.
Measure Theory.
Point Set Topology.
Theory of Functions.

Mr Snyder:

Applied Mathematics.
Numerical Analysis.
Partial Differential Equations.
Magneto-Hydrodynamics.

Journal Club. A Mathematical Colloquium at the University of Pennsylvania meets approximately every two weeks. Lectures by visiting mathematicians are frequently presented also at Haverford and Swarthmore Colleges.

SELECTED UNDERGRADUATE COURSES

[*Interdepartmental Course 220c.* Introduction to Automatic Computation: Mr Snyder and members of several Departments.]

301. *Advanced Calculus:* Mr Snyder.
303a. *Introduction to Abstract Algebra:* Mr Bolker.
303b. *Topics in Algebra:* Mr Bolker.
[307. *Numerical Analysis:* Mr Snyder.]
[308. *Introduction to Applied Mathematics:* Mr Snyder.]
[310. *Theory of Functions of a Complex Variable:* Mr Oxtoby.]
[312b. *Topology:* Mr Cunningham.]
320. *Real Analysis:* Mr Oxtoby.

Mediaeval Studies

Professor of Philosophy: Jean A. Potter PHD *Chairman*
Professor of English: Robert B. Burlin PHD
Professor of Spanish: Joaquín González Muela *D en F L*
Professor of History of Art: Charles Mitchell B LITT LITT D[1]
Associate Professor of History: Charles M. Brand PHD
Associate Professor of Music: Isabelle Cazeaux PHD
Associate Professor of History of Art: James E. Snyder PHD
Associate Professor of Latin: Myra L. Uhlfelder PHD

Graduate work for the M.A. in the mediaeval field may be done either under a particular department or under the Mediaeval Studies Committee. Doctoral studies in the mediaeval period will usually come under the supervision of a particular department; in exceptional cases students with outstanding preparation will be permitted to take the Ph.D. in Mediaeval Studies.

Mediaeval work in a particular department will fall under the regulations of that department. For work under the Mediaeval Studies Committee the regulations are as follows:

Prerequisites. The committee must be satisfied that all candidates for admission have done sufficient undergraduate work to undertake graduate studies in the mediaeval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, and two modern languages. Other languages may be substituted by permission of the Committee according to the candidate's special program. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the

[1] On leave, 1970-71.

work of one of the seminars, will be required in addition to an examination. The Final Examination may be either written (four hours) or written and oral (three hours - one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, written and oral, will be required. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

See under the various Departments.

Music

Professor and Director of the Chorus:
Robert L. Goodale B MUS A A G O *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor M A

Associate Professor: Isabelle Cazeaux PH D

Instructor: Wilbert D. Jerome M MUS

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The Final Examination covers the subject matter of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:
Seminar in Musicology.
Mr Goodale:
Music of the Twentieth Century.
Mme Jambor:
The Interpretation of Music.
Mr Jerome:
Studies in Romantic Music.

SELECTED UNDERGRADUATE COURSES

201. *Romantic Music:* Miss Cazeaux, Mr Jerome.
202. *Advanced Theory and Analysis:* Mr Goodale.
203a. *Bach:* Mme Jambor.
203b. *The Classical Period:* Mme Jambor.
205a. *Musical Criticism:* Miss Cazeaux.
[301a. *Music of the Twentieth Century:* Mr Goodale.]
301b. *Opera and Music Drama:* Miss Cazeaux.
[302a. *Mediaeval and Early Renaissance Music:* Miss Cazeaux.]
[302b. *Late Renaissance and Early Baroque Music:* Miss Cazeaux.]
[303b. *Orchestration:* Mr Goodale.]
304b. *Interpretation of Music:* Mme Jambor.
305. *Free Composition:* Mr Goodale.

Philosophy

Professors: Milton C. Nahm B LITT PH D *Chairman*
José María Ferrater Mora *Lic F L*
George L. Kline PH D[1]
Jean A. Potter PH D
Isabel S. Stearns PH D
Associate Professor: Mary Patterson McPherson PH D
Dean of the Undergraduate College
Assistant Professor: Michael Krausz PH D
Lecturer: George E. Weaver Jr M A

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy and subjects in most fields of the Humanities, Mathematics, and Natural and Social Sciences.

Language Requirements. For the M.A., one modern language. French and German for the Ph.D. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examination for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

[1] On leave, 1970-71.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr Nahm: *Aesthetics.*

A systematic and historical analysis in the philosophy of art.

Ethics.

A study of Plato's and Aristotle's or of Kant's ethical theories.

Kant.

A detailed study of the main themes of the *Critique of Judgment.*

Miss Stearns: *Metaphysics.*

A study of such metaphysical problems as causation, the nature of the individual, the person, reality and value.

Epistemology.

A systematic and historical study of such problems as the nature of universals, the nature of language, and the function of different agencies in knowledge.

Mr Ferrater Mora: *Philosophy of Language.*

A study of such problems as medium and message, meaning and reference, speech acts, and symbolic forms.

History of Philosophic Concepts.

The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Kant.

A detailed study of the main themes of the *Critique of Pure Reason.*

Mr Kline: *Whitehead.*

A study of topics drawn from *The Concept of Nature, Science and the Modern World, Process and Reality,* and *Adventures of Ideas.*

Hegel.

An intensive study of the *Phenomenology of Mind.*

Ethics.

A close examination of classical texts in ethical theory, with some attention to twentieth-century authors.

Miss Potter: *Mediaeval Philosophy.*

Studies in selected problems and texts in mediaeval philosophical thought.

Continental Rationalism.

A detailed study of Descartes and Spinoza.

Philosophy of Religion.
A systematic study of the metaphysical and epistemological problems of theism.

Mr Krausz: *Theory of Inquiry.*
A study of Wittgenstein's conception of systematic inquiries as propositional constructs, in contrast to Collingwood's conception of systematic inquiries as non-propositional constructs.

Mr Weaver: *Logic.*
A study of the major concepts and results in modern mathematical logic.

Journal Club. Graduate students have the privilege of becoming auxiliary members of the Fullerton Club. The club meets once a month. Papers are read by visiting lecturers and by members of the faculties of Bryn Mawr College and of nearby colleges and universities.

SELECTED UNDERGRADUATE COURSES

202a. *Plato:* Miss Stearns.
215b. *Kant:* Mr Ferrater Mora.
250a. *Logic:* Mr Weaver.
264b. *Philosophy of Science:* Mr Weaver.
301b. *Recent Metaphysics:* Miss Stearns.
[302b. *Philosophy of Criticism.*]
[304a. *Russian Philosophy.*]
[307a. *Texts in Mediaeval Philosophy.*]
310b. *Advanced Logic:* Mr Weaver.

Physics

Professors: Rosalie C. Hoyt PH D *Chairman*
Walter C. Michels PH D
John R. Pruett PH D
Assistant Professor: John R. Olson PH D[1]
Lecturer: Alfonso Albano PH D

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g., Mathematics, Chemistry, Engi-

[1] On leave, 1970-71.

neering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Candidates for the degree of Doctor of Philosophy customarily offer Physics as the major subject and Mathematics as an allied subject. If a candidate's mathematical preparation is accepted as adequate for the doctorate in Physics, then Chemistry, Biology, or Geology may be substituted for Mathematics. Alternatively, the candidate may offer Experimental Physics or Theoretical Physics as a major subject with the other being offered as an allied subject.

Language Requirements. For the M.A. and the Ph.D. degrees, two languages are required; one, French, German or Russian; the second, "computer language," including FORTRAN. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level. Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics. The M.A. examination is a one-hour oral examination.

Program and Examinations for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the

latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Three or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr Michels, Miss Hoyt, Mr Pruett, Mr Olson.

Theoretical Physics

Mr Michels: *Electromagnetic Theory.*

Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr Albano: *Quantum Mechanics.*

Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

At least one of the following advanced seminars is given each year:

Mr Olson, Miss Hoyt: *Chemical Physics and Biophysics.*

Interatomic and intermolecular forces, vibrational and rotational states of molecules, energy transfer through collisions. Dynamical properties of biological membranes, the biophysics of photosynthesis and photosensitive receptors. Prerequisite: Quantum Mechanics.

Mr Michels: *Physics of the Solid State.*

Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quan-

tum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr. Pruett: *Nuclear Physics.*

An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

201a. *Electricity and Magnetism:* Mr Pruett.

202b. *Optics:* Mr Pruett.

301a. *Classical Mechanics:* Mr Albano.

303b. *Thermal Properties of Matter:* Mr Albano.

304. *Introduction to Theoretical Physics:* Miss Hoyt.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Gertrude C. K. Leighton AB LL B *Chairman*
Melville T. Kennedy, Jr. PHD[1]

President of the College: Harris L. Wofford, Jr. AB LL B

Associate Professor: Charles E. Frye PHD

Assistant Professors: Marc H. Ross PHD
Stephen Salkever PHD

Lecturer: William E. Steslicke PHD

Prerequisites. A good undergraduate training in political science and related subjects.

Major and Allied Fields. The major fields offered in political science are political philosophy and theory, western comparative politics, non-western comparative politics, American political process, American constitutional law, and international politics and law. Allied fields may be chosen in the other social sciences, in history

[1] On leave, 1970-71.

and philosophy, and, with the special permission of the Department, in certain subjects in literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. One modern foreign language for the M.A. Two foreign languages (only one need be modern), or one modern language and statistics for the Ph.D. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. The statistics requirement may be satisfied by passing an approved course in statistics.

Program and Examination for the M.A. The program consists of three units of work in political science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is written. These fields are tested by preliminary written and oral examination. The dissertation is defended in the oral examination.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Mr Frye:

European Comparative Politics.

Miss Leighton:

International Law.
Law, Psychodynamic Theories of Personality and Psychiatry.

Mr Salkever:

[*Constitutional Law.*]
Topics in Normative and Empirical Theory.

Mr Steslicke:

Asian Foreign Policies.
Topics in Japanese Political Development.
Comparison of Western and non-Western Modernization.

Mr Ross:

American Politics.
Urban Politics.

SELECTED UNDERGRADUATE COURSES

218a. *Urban Politics:* Mr Ross.
230b. *Political Behavior:* Mr Ross.
301a. *Law and Society:* Miss Leighton.

302b. *Law, Policy and Personality:* Miss Leighton.
[303a. *Problems in International Politics:* Mr Kennedy.]
303b. *Political Leadership in Industrialized Societies:* Mr Steslicke.
[304b. *West European Integration:* Mr Frye.]
307b. *Modern Germany:* Mr Frye.
310a. *Problems in Comparative Politics:* Mr Frye.
311b. *Theory and Practice in Political Philosophy:* Mr Salkever.
[313b. *Problems in Constitutional Law.*]
316b. *Urban Affairs:* Mr Ross.
320a. *Political Modernization: Britain and Japan:* Mr Steslicke.

Psychology

Professors: Richard C. Gonzalez PHD *Chairman*
Rachel Dunaway Cox PHD
Howard S. Hoffman PHD
Visiting Professor: Larry Stein PHD
Associate Professor: Matthew Yarczower PHD
Assistant Professors: Clark McCauley PHD
Earl Thomas PHD

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test and on the Aptitude Test and Advanced Tests of the Graduate Record Examinations.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Chemistry, Mathematics, Philosophy and Physics.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. Candidates for the Ph.D. must pass examinations in two of the three languages. With permission of the Department, knowledge of computer languages (including FORTRAN) and usage, tested

by written examination, may be substituted for one of the two languages. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examinations for the M.A. The program of work must include three units (six one-semester seminars or courses), which usually will be chosen from the group of seminars and courses listed below. Before final approval of the Master's paper, each candidate must pass a written examination in Statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Ph.D. candidates are expected to devote a large portion of their time to supervised research. In the first year, the research is done under the close supervision of the candidate's faculty advisor; a written report of the year's research activities (the form and content of which are determined by the candidate and his advisor) is submitted to the Department; and an oral examination dealing with the paper and related topics is conducted by the candidate's advisor and at least three other members of the Department. In addition to research, candidates, in their first two years of residence, take the five one-semester graduate courses listed below (or, if they elect to do so, a written examination in the subject matter instead of any one or all of the courses). The Preliminary Examination, which should be taken before the beginning of the third year, consists of three written examinations of four hours each and an oral examination of one to two hours. The written examinations are in the following areas: Learning and Motivation, Physiological Psychology, and Social Psychology. The oral examination involves a defense by the candidate of a research proposal he has prepared and submitted in advance of the examination. Work beyond the Preliminary Examination consists of seminars in selected topics and of dissertation research. The Final Oral Examination deals with the dissertation and the field in which it was written.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

GRADUATE COURSES

Mr Gonzalez:
Learning Theory.

Mr Hoffman:
Statistics.
Instrumentation in Psychology.

Mr McCauley:
Experimental-Social Psychology.

Mr Stein and Mr Thomas:
Physiological Psychology.

SEMINARS

Seminars are offered on specialized topics in the areas of experimental, physiological and social psychology.

SELECTED UNDERGRADUATE COURSES

201a. *Comparative Psychology:* Mr Yarczower.
201b. *Animal Learning:* Mr Gonzalez.
[202a. *Motivation:* Mr Gonzalez, Mr Hoffman.]
202b. *Human Conceptual Behavior:* Mr Yarczower.
301a. *Physiological Psychology:* Mr Thomas.

Russian

Professor: Frances de Graaff PHD *Chairman*[1]
Associate Professor: Ruth L. Pearce PHD
Assistant Professor: Irene Nagurski PHD
Lecturer: Katherine O'Connor MA

Professor of Philosophy: George L. Kline PHD[2]

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. For the M.A., French or German. For the Ph.D., French, German and one Slavic language other than Russian. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

[1] On leave, semester I.
[2] On leave, 1970-71.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars offered are selected from the following:
Miss de Graaff:

Serbo-Croatian Language and Literature.
Pushkin and Lermontov.
Chekhov and Gorki.

Miss Nagurski:

Polish Language and Literature.
Tolstoy and Turgenev.

Mrs Pearce:

History of the Russian Language.
Old Church Slavonic.
Advanced Russian Grammar.

Mrs O'Connor:

Modern Soviet Poetry.

Mr Kline:

Russian Philosophy.

SELECTED UNDERGRADUATE COURSES

201. *Readings in Russian Literature:* Miss Nagurski.
302. *Pushkin and His Time:* Mrs O'Connor, Miss de Graaff.
[303. *Russian Literature of the Twentieth Century:* Miss de Graaff.]

Sociology

Professor: Eugene V. Schneider PHD *Chairman*

Assistant Professor: Judith R. Porter PHD

Lecturer: Martin Wenglinsky PHD

Prerequisites. An undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses.

Major and Allied Subjects. Students may wish to take some work in allied fields: Anthropology, Economics, Psychology, Political Science, History and Statistics. In addition, courses in Sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan.

Language and Statistics Requirement. Candidates for the M.A. must offer one modern language and Statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and Statistics. The statistics requirement will be tested by the Department, or may be met by passing a graduate course in Statistics.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examination for the Ph.D. The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in General Sociology, Sociological Theory, and two special fields, one of which may be an allied field. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

Sociological Theory
Social Stratification
Sociology of Religion
Personality and Social Structure
Sociology of Knowledge
Industrial Sociology
Race Relations
Sociology of Poverty
Political Sociology
Contemporary Theories of Human Nature

SELECTED UNDERGRADUATE COURSES

207a. *Race Relations:* Mrs Porter.
208b. *Personality and Social Structure:* Mr Schneider.
220a. *Political Sociology:* Mr Wenglinsky.
222b. *Sociology of Literature:* Mr Wenglinsky.
227b. *Sociology of Occupations and Professions:* Mr Wenglinsky.
302a. *Social Theory:* Mr Schneider.

Spanish

Professors: Willard F. King PH D *Chairman*
Joaquín González Muela *D en F L*

Associate Professor: Phyllis Turnbull *D en FL*

Assistant Professor: Eleanor K. Paucker PH D

Professor of Philosophy: José Maria Ferrater Mora *Lic F L*

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition. Applicants for admission in Spanish are asked to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology; Spanish-American Literature.

Language Requirements. For the M.A. either German or one Romance language other than Spanish. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin must be included in the graduate program.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed with the member of the Department with whom the candidate plans to work on the dissertation. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department:

[*Ideological Currents in Renaissance Spain* (semester I).]

[*Cervantes: Drama, Poetry* and *Novel* (with the exception of *Don Quijote)* (semester II).]

[*The History of the Spanish Language* (semester I).]

[*The Mediaeval Castilian Epic and Lyric* (semester II).]

Prose Fiction of the Golden Age.
From *La Celestina* to *El Criticón* (semesters I and II).

[*The Poetry of the Golden Age.*
The evolution of Spanish poetry from Garcilaso to Góngora (semester I).]

[*Problems in the Golden Age Theater.*]

The Eighteenth Century.
The essay, theater, and poetry from Feijóo to Jovellanos (semesters I and II.)

Studies in Modern Spanish Literature.
The nineteenth-century novel: Valera, Pereda, Galdós, Pardo-Bazán (semesters I and II).

[*Studies in Spanish-American Literature.*]

SELECTED UNDERGRADUATE COURSES

[302a. *Mediaeval Spanish Literature:* Miss Turnbull.]
[303a. *The Modern Novel in Spain:* Mrs King.]
[303b. *Modern Spanish Poetry:* Mr González Muela.]
304a. *Theater of the Golden Age:* Mrs King.
304b. *Cervantes:* Mrs King.

Fees

Application (citizens of the United States and Canada) $10.

Tuition

Full-time students: $1800 a year.

Part-time students: $600 a year (or $300 a semester) for each academic unit.

Course in Reading German: $25 a semester.

Auditors: Fees for auditors are the same as those for students registered in courses for credit.

Continuing enrollment for Ph.D. candidates: Candidates who have completed the required academic units, including a dissertation unit, and who are continuing independent work on their dissertations either in the vicinity of Bryn Mawr College or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of $25 each semester. Such students may, with the approval of their department, apply to the Council of the Graduate School of Arts and Sciences for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Payment of Fees

No reduction or refund of the tuition fee will be made on account of absence, illness or withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College, Book Shop, or other college facility.

The Education Plan of monthly payment in cooperation with the Bryn Mawr Trust Company is available for those who prefer to pay fees in monthly installments. Direct correspondence to the Comptroller of the College.

Summary of Expenses for the Academic Year

Regular

Tuition Fee	$1800
Residence in graduate student housing	1000

Contingent

Continuing Enrollment Fee	$ 50
Course in Reading German	50
Dispensary Fee	25
Health Insurance (foreign students)	45
Graduation Fee for all Graduate Degrees	25
Charge for Microfilming Ph.D. Dissertation	30
Graduate housing during Christmas and spring vacations ($2.00 per day—maximum 30 days)	60
Late Registration Fee	10

Exclusion

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of alumnae and other generous donors, and from government agencies and private foundations. The majority of these awards are made on the basis of an annual competition. Many of these awards are available to both men and women. Some may be granted only to women. Fellowships carry a stipend of $2000 in addition to tuition and are available only to students who are citizens of the United States or Canada and who have completed one full year of graduate work. Graduate scholarships have a value of $1000 in addition to tuition and may be held by citizens and non-citizens and by students at all levels of graduate work. Other awards vary in value.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School of Arts and Sciences and must be filed complete not later than February 15. In writing for forms applicants should state their fields of concentration. Applications from foreign students must be received not later than January 25. Scores of the Test of English as a Foreign Language or the examination of the English Language Institute of the University of Michigan must be included. Therefore the TOEFL must be taken by the previous October (see page 7). Substitutes for these tests must be approved by the Council of the Graduate School of Arts and Sciences.

All awards will be announced in March.

Fellowships in the Award or Nomination of the College

Bryn Mawr College Fellowships of $2000 in addition to tuition are offered annually in Anthropology, Biochemistry, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History and Philosophy of Science, History of Art, Latin, Mathematics, Mediaeval Studies, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology, and Spanish.

Alumnae Association Fellowships. The Class of 1959 and District II of the Alumnae Association have each donated a graduate fellowship.

Marion Louise Ament Fellowship. Graduate fellowships in Spanish are occasionally awarded from the fund established in 1966 in honor of Marion Neustadt, Class of 1944.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a woman graduate student from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. A fellowship or scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Howard Lehman Goodhart Fellowship is awarded to an advanced student, man or woman, in Mediaeval Studies.

The Helen Schaeffer Huff Memorial Research Fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be $4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

The S. Maude Kaemmerling Scholarship was established in 1959 by the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships for men and women.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced men and women graduate students in History of Art.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine McBride was established by friends among the alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion. The fellowship is awarded in any department to a woman candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

National Defense Graduate Fellowships under Title IV of the National Defense Education Act are available to citizens and nationals

of the United States and those who have obtained a permanent visa, who plan to work for the Ph.D. degree and to enter a career of college teaching. These fellowships, designed primarily for first- or second-year students, men and women, may be held in the Departments of Biology, Chemistry, Classical and Near Eastern Archaeology, English, French, Greek, History, History of Art, Latin, Mathematics, Philosophy, Psychology and Spanish.

National Science Foundation Graduate Traineeships. Traineeships are available to United States citizens and nationals, first-year and advanced graduate students, men and women, in mathematics, the natural sciences and certain fields in the social sciences.

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

The Ida H. Ogilvie Fellowships in Geology are awarded to men and women each year from part of the income of the Ida H. Ogilvie Fund, which was established in 1965 through the bequest of Dr. Ogilvie, a member of the Class of 1896.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides two or more fellowships to advanced students interested in public affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a woman graduate student working toward the doctorate. This award may be made to a beginning graduate student.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics and psychophysics.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships or other grants as seem appropriate.

Fellows by Courtesy. Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

Travelling Fellowships

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a woman who is a candidate for the degree of Doctor of Philosophy at Bryn Mawr College and who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, and who shows ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or *Scholarship* in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

Graduate Scholarships

Bryn Mawr College Graduate Scholarships of $1000 each in addition to tuition are offered annually to men and women for work in any department of the Graduate School.

Alumnae Association Scholarships. Alumnae Association Scholarships are provided from the contributions of former graduate students to the Alumnae Fund and also have been given by Districts II and III of the Alumnae Association and the Bryn Mawr Club of Princeton.

Scholarships for Foreign Students. These scholarships are designated for foreign students who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in graduate student housing during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) Scholarship holders are expected to carry a full program of graduate work and

to attend regularly the courses for which they are registered. Work is given in seminars or small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently.

The Marguerite N. Farley Scholarships for Foreign Students, of the value of $1000 each in addition to tuition, are offered to students from any country outside the United States and Canada. Occasionally a fellowship is awarded from this fund to a foreign student who has completed at least one year at Bryn Mawr.

A Special British Scholarship, of the value of $1000 in addition to tuition, is awarded to students from the United Kingdom sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of $1100 each in addition to tuition, have been established for students whose languages form a part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

Duties of Fellows and Scholars

Fellows and Graduate Scholars are required to carry a full academic program at Bryn Mawr College. They are expected to attend official functions and to perform a limited amount of service for the College. Fellows are not permitted to accept other appointments. Scholars, with the permission of the Dean of the Graduate School of Arts and Sciences, may undertake a limited amount of paid work. Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be sent about the first of March to the Dean of the Graduate School of Arts and Sciences for transmittal to the student's department.

Graduate Assistantships

Teaching Assistantships are available in many Departments. These positions carry salaries of $2300-$2500 for half-time work, $1550-$1700 for one-third time work, and include tuition without fee. The duties differ with departments. In departments of science, assistantships provide teaching and laboratory experience.

Research Assistantships are available in the Departments of Biology, Chemistry, Physics and Psychology. The Department of Geology offers the J. H. Fitzgerald Dunning Research Assistantship.

Internships and Field Work Placements. The Department of Education and Child Development offers each year one internship, with stipend, in school psychology. The intern is placed in the Child Study Institute and receives individual supervision there. Supervised practicum experience at the Institute is also available, usually without stipend.

Supervised field work placements, with stipend, are available in school counseling. These are open to advanced, highly qualified candidates in the school counseling program sequence. Supervised practicum experience in counseling is also available, usually without stipend.

Tuition Grants

Tuition grants are available for full-time and part-time students in all departments. A grant from District II of the Alumnae Association has increased the funds available to assist women students who are unable to undertake full-time graduate work.

Graduate Prize

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the committee of which the President of the College is chairman.

Loan Funds

National Defense Student Loan Program—NDEA Title II. Loans up to $2500 a year are available to qualified graduate students under this Title. They are open to students registered for at least two units of graduate work. Partial loan cancellation is offered to prospective teachers. Applications are due April 1 for consideration in the spring and September 1 for loans to be made in the early fall.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was established by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the Committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1500.

While the student is in college no interest is charged; after the student leaves college the interest rate is three per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, Wyndham, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) to assist in the education of young women attending Bryn Mawr College. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is $500. No interest is charged while the student is at Bryn Mawr. The interest rate is three per cent, to be paid after the student leaves Bryn Mawr. The principal is to be repaid within five years from the time the student leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 and is available for men and women. The maximum amount which can be borrowed for any given academic year is $500. Arrangement for repayment is similar to that for the Mary Hill Swope Loan Fund, listed above.

Office of Career Planning and Placement

The Office of Career Planning and Placement is concerned with student and alumni career, summer, and self-help job interests.

Graduate students may consult on careers to match their interests and experience, for information on specific employers and current job openings, and on techniques of job-hunting. Career Planning and Placement also collects, maintains, and makes available to employers, credentials including biographical data and faculty and employer references for those who register with the office.

Students may also obtain part-time employment during the year both on- and off-campus through this office. Some of the jobs available are clerical, library work, typing, waitressing, childcare, and sales. Information on summer jobs is collected and a newsletter on summer opportunities sent out to students periodically. The staff of the office is available for consultation on any of these programs.

Government regulations severely limit the employment of students of foreign citizenship in the United States.

Graduate Student Council

The Graduate Student Council, composed of one elected representative from each department offering a graduate program, serves as a vehicle through which graduate students may voice their concerns and needs to the faculty and administration. When appropriate, the council also carries out specific programs to meet these needs.

Graduate students work primarily in one department, so that the council provides a means of communicating with students in all departments. Council meetings are held at least once a month in the Graduate Lounge located in the M. Carey Thomas Library. Graduate student opinion is sometimes solicited through questionnaires, so that the council may best represent various opinions.

The council works through committees such as those concerned with the Library and with graduate student housing. In addition, representatives of the council sit on various college committees.

Graduate Student Housing

Housing on campus is provided for about seventy graduate students in the Graduate Residence Center and other units. There is a separate bedroom for each student with the exception of a few double rooms in Batten House which can accommodate married couples. Meals and health service are included in the residence charge. Rooms are furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors. The dining room, available to all resident students, is located in the Center.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned to the Office of the Graduate School of Arts and Sciences with a deposit of ten dollars. The deposit will be deducted from the residence fee; it will be refunded only if the student has been called into service in the armed forces of the United States.

A student who has reserved a room will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School of Arts and Sciences before September 1, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second. Beginning in 1971-72, there will be an increase in this charge. Allowance cannot be made for dietary restrictions.

Residence on campus is provided for the academic year only—from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of $2.00 a day (meals not included). Baggage will be accepted at the College after September 2. It should be sent prepaid, addressed to the proper residence hall, and marked with the owner's name.

Health

The College maintains an 18-bed infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in campus housing and by students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session.

The residence charge paid by graduate students living in campus housing entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven-day period, the fee is $15.00 for each day in the Infirmary. In case of contagious disease, if special nursing is necessary, the student must meet the expense.

Graduate students who do not live in campus housing may pay a $25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. The fee is not billed automatically and is not covered by scholarship or other grants. The dispensary fee is to be paid in the Comptroller's Office where a dispensary card is issued which must be shown when the student reports to the dispensary for treatment. Non-resident students are not given bed care in the Infirmary except under exceptional conditions at a charge of $15.00 per day.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Medical Examination

All graduate students, whether resident or non-resident, must file the medical examination form which indicates that they have been vaccinated against smallpox during the three-year period prior to entering the Graduate School of Arts and Sciences and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this form may be vaccinated at the dispensary on arrival and charged a fee of one dollar. Non-resident students who have not been vaccinated will not be permitted to attend classes. There is no exception to this rule.

In addition to the above, the medical examination form requires evidence of immunization within three years of entrance against

diphtheria and tetanus, by toxoid, and against poliomyelitis. It also requires a report of an Intradermal Tuberculin test within one year; if this is positive, the results of a chest X-ray must be submitted. The medical examination form is supplied by the Office of the Graduate School of Arts and Sciences and is to be returned to the same office. If it has not been received by the time the student arrives in Bryn Mawr, the necessary tests will be done here at the student's expense.

Any student with a health problem identified by his personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is $27.80 for a full year starting October 1. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about $45.00 for a twelve-month period, starting in mid-September.

The Trustees of Bryn Mawr College

President
Edmund B. Spaeth, Jr.

Vice-Presidents
Millicent Carey McIntosh[1]
Elizabeth Gray Vining[2]

Treasurer
John E. Forsythe

Secretary
Millicent Carey McIntosh[1]

Assistant Treasurer
J. Tyson Stokes

Assistant Secretary
Edith H. McGrath[3]

Trustees
Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Edmund B. Spaeth, Jr.
Henry Scattergood
Alison Stokes MacLean[4]

Trustee Emeritus
Lelia Woodruff Stokes[5]

The Board of Directors

Chairman
Edmund B. Spaeth, Jr.

Vice-Chairmen
Eleanor Little Aldrich[6]
Elizabeth Gray Vining[2]

Treasurer
John E. Forsythe

Secretary
Millicent Carey McIntosh[1]

Assistant Treasurer
J. Tyson Stokes

Directors
Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Edmund B. Spaeth, Jr.
Henry Scattergood

Directors (Cont'd)
Alison Stokes MacLean[4]
Harris L. Wofford, Jr.
Eleanor Little Aldrich[6]
J. Tyson Stokes
Phyllis Goodhart Gordan[7]
Alice Palache Jones[8]
Agnes Clement Ingersoll[9]
Lewis N. Lukens
Elizabeth Pearson Horrocks[10]
Alumnae Director 1965-1970
Margaret Tyler Paul[11]
Alumnae Director 1966-1971
Clarissa Wardwell Pell[12]
Alumnae Director 1967-1972
Emily Townsend Vermeule[13]
Alumnae Director 1968-1973
Edith Harris West[14]
Alumnae Director 1969-1974
Barbara Auchincloss Thacher[15]
Alumnae Director 1970-1975

By Invitation
Barbara Cooley McNamee[16]
President of the Alumnae Association

(See page 86 for footnotes.)

Standing Committees of the Board of Directors for 1970

Executive Committee
Judge Spaeth *Chairman*
Mrs Aldrich
Mr Cadbury
Mr Forsythe
Mrs Gordan
Mrs McIntosh
Mr Rhoads
Mr Stokes
Mr Wofford

Buildings and Grounds Committee
Mr Rhoads *Chairman*
Mrs Gordan *Vice-Chairman*
Mrs Horrocks
Mrs Ingersoll
Mrs Paul
Mr Price
Mrs West
Mr Wofford

Library Committee
Mrs Gordan *Chairman*
Mrs Aldrich
Mrs Pell
Mrs Vining
Mrs Vermeule
Mr Wofford

Finance Committee
Mr Forsythe *Chairman*
Mrs Jones
Mr Price
Mr Stokes
Mr Terrell
Mr Wood

Religious Life Committee
Mrs Paul *Chairman*
Mr Cadbury
Mrs Ingersoll
Mrs McIntosh
Dr Rhoads
Mrs Vining
Mr Wofford

[1] Mrs Rustin McIntosh
[2] Mrs Morgan Vining
[3] Mrs Thomas F. McGrath
[4] Mrs Paul D. MacLean
[5] Mrs Francis J. Stokes
[6] Mrs Talbot Aldrich
[7] Mrs John D. Gordan
[8] Mrs Russell K. Jones
[9] Mrs C. Jared Ingersoll
[10] Mrs Thomas S. Horrocks
[11] Mrs Samuel H. Paul
[12] Mrs Francis L. Pell
[13] Mrs Cornelius C. Vermeule III
[14] Mrs William Nelson West
[15] Mrs Thomas Thacher
[16] Mrs Daniel V. McNamee, Jr.

Faculty and Staff of the Graduate School of Arts and Sciences

for the Academic Year 1970-71

Harris Llewellyn Wofford, Jr. AB (University of Chicago) LLB (Howard University and Yale University) *President of the College*

Katharine Elizabeth McBride PHD (Bryn Mawr College) LLD LHD LITT D SC D *President Emeritus of the College*

Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School of Arts and Sciences*

Mary Patterson McPherson PHD (Bryn Mawr College) *Dean of the Undergraduate College*

Bernard Ross PHD (University of Michigan) *Dean of the Graduate School of Social Work and Social Research*

Phyllis S. Lachs PHD (Bryn Mawr College) *Assistant Dean of the Graduate School of Arts and Sciences*

Mabel L. Lang PHD (Bryn Mawr College) *Secretary of the General Faculty*

Mary Maples Dunn PHD (Bryn Mawr College) *Secretary of the Faculty of Arts and Sciences*

Mark B. Adams MA (Harvard University) *Assistant Professor of the History of Science,* on joint appointment with the University of Pennsylvania

Alfonso M. Albano PHD (State University of New York at Stony Brook) *Lecturer in Physics*

Horace Alwyne F R M C M (Royal Manchester College of Music) *Professor Emeritus of Music*

Jay Martin Anderson PHD (Harvard University) *Associate Professor of Chemistry*

Hans Bänziger PHD (University of Zurich) *Professor of German*

Katrin T. Bean PHD (Bryn Mawr College) *Lecturer in German*

Ernst Berliner PHD (Harvard University) *W. Alton Jones Professor of Chemistry*

Frances Bondhus Berliner PHD (Bryn Mawr College) *Lecturer in Chemistry*

Eleanor A. Bliss SC D (Johns Hopkins University) *Dean Emeritus*

Ethan D. Bolker PHD (Harvard University) *Associate Professor of Mathematics*

Charles M. Brand PHD (Harvard University) *Associate Professor of History*

Robert B. Burlin PHD (Yale University) *Professor of English*

Robert H. Butman MA (University of North Carolina) *Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre,* on joint appointment with Haverford College

Rhys Carpenter PHD (Columbia University) LITT D *Professor Emeritus of Classical Archaeology*

Isabelle Cazeaux PHD (Columbia University) *Associate Professor of Music*

Robert L. Conner PHD (Indiana University) *Professor of Biology*

Rachel D. Cox PHD (University of Pennsylvania) *Professor of Education and Psychology*

Maria Luisa B. Crawford PHD (University of California) *Assistant Professor of Geology*

William A. Crawford PHD (University of California) *Assistant Professor of Geology*

Charles A. Culotta PHD (University of Wisconsin) *Assistant Professor of the History of Science,* on joint appointment with the University of Pennsylvania

Roger W. Cummins PHD (University of Minnesota) *Assistant Professor of English*

Frederic Cunningham, Jr. PHD (Harvard University) *Professor of Mathematics*

Jon-Henri Damski MA (University of Washington) *Instructor in Latin*

Gwenn Davis PHD (University of Michigan) *Assistant Professor of English*

Gérard Defaux *Agrégé* (Sorbonne) *Associate Professor of French*

Frances de Graaff PHD (University of Leyden) *Professor of Russian*[1]

Frederica de Laguna PHD (Columbia University) *Professor of Anthropology*

Grace Mead Andrus de Laguna PHD (Cornell University) *Professor Emeritus of Philosophy*

Charles G. Dempsey PHD (Princeton University) *Associate Professor of History of Art*

Gregory W. Dickerson MA (Princeton University) *Assistant Professor of Latin and Greek*

Max Diez PHD (University of Texas) *Professor Emeritus of German Literature*

Nancy C. Dorian PHD (University of Michigan) *Assistant Professor of German*

Lincoln Dryden PHD (Johns Hopkins University) *Professor Emeritus of Geology*

[1] On leave, semester I, 1970-71.

Richard B. Du Boff PHD (University of Pennsylvania) *Associate Professor of Economics*

Arthur P. Dudden PHD (University of Michigan) *Professor of History*

Mary Maples Dunn PHD (Bryn Mawr College) *Associate Professor of History and Secretary of the Faculty of Arts and Sciences*

Charles Ghèquière Fenwick PHD (Johns Hopkins University) LLD *Professor Emeritus of Political Science*

José María Ferrater Mora *Licenciado en Filosofia* (University of Barcelona) *Professor of Philosophy*

Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School of Arts and Sciences* and *Professor of History*

Grace Frank AB (University of Chicago) *Professor Emeritus of Old French*

Lucienne Frappier-Mazur *Agrégée* (University of Paris) *Visiting Lecturer in French*

Charles E. Frye PHD (Princeton University) *Associate Professor of Political Science*

Mary Summerfield Gardiner PHD (Bryn Mawr College) *Professor Emeritus of Biology*

Robert Gaston D PHIL (University of London) *Lecturer in History of Art*

Richard C. Gonzalez PHD (University of Maryland) *Professor of Psychology*

Joaquin González Muela *D en FL* (University of Madrid) *Professor of Spanish*

Jane C. Goodale PHD (University of Pennsylvania) *Associate Professor of Anthropology*

Robert L. Goodale AB B MUS (Yale University) AAGO *Alice Carter Dickerman Professor of Music*

Michel Guggenheim PHD (Yale University) *Professor of French*

A. Irving Hallowell PHD (University of Pennsylvania) *Visiting Lecturer in Anthropology*

Howard S. Hoffman PHD (University of Connecticut) *Professor of Psychology*

Janet L. Hoopes PHD (Bryn Mawr College) *Professor of Education and Child Development* and *Director of the Child Study Institute*

Rosalie C. Hoyt PHD (Bryn Mawr College) *Professor of Physics*

Joshua C. Hubbard PHD (Harvard University) *Professor of Economics*

Thomas Jackson PHD (Yale University) *Associate Professor of English*

Agi Jambor MA (Royal Academy of Budapest) *Professor of Music* and *Director of Ensemble Groups*

Wilbert D. Jerome MMUS (Temple University) *Instructor in Music*

Myra Richards Jessen PHD (Bryn Mawr College) *Professor Emeritus of German*

M. Pauline Jones PHD (Bryn Mawr College) *Associate Professor of French*[1]

Anthony R. Kaney PHD (University of Illinois) *Assistant Professor of Biology*

Howard C. Kee PHD (Yale University) *Rufus Jones Professor of History of Religion*

Melville T. Kennedy, Jr. PHD (Harvard University) *Professor of Political Science*[2]

Philip A. Kilbride MA (Pennsylvania State University) *Assistant Professor of Anthropology*

Willard F. King PHD (Brown University) *Professor of Spanish*

George L. Kline PHD (Columbia University) *Professor of Philosophy*[2]

June Q. Koch PHD (Columbia University) *Assistant Professor of English*

Sandra I. Kohler MA (Bryn Mawr College) *Lecturer in English and Dean of the Class of 1972*

Charles C. Kolb MA (Pennsylvania State University) *Lecturer in Anthropology*

Joseph Kramer PHD (Princeton University) *Associate Professor of English*

Michael Krausz PHD (University of Toronto) *Assistant Professor of Philosophy*

Samuel Tobias Lachs PHD (Dropsie College) *Visiting Lecturer in History of Religion*

Catherine Lafarge PHD (Yale University) *Assistant Professor of French*[2]

Barbara M. Lane PHD (Harvard University) *Associate Professor of History*

Mabel L. Lang PHD (Bryn Mawr College) *Professor of Greek* and *Secretary of the General Faculty*

Richmond Lattimore PHD (University of Illinois) LITT D *Paul Shorey Professor of Greek*

Marguerite Lehr PHD (Bryn Mawr College) *Professor Emeritus of Mathematics*

Gertrude C. K. Leighton AB (Bryn Mawr College) LL B (Yale University) *Professor of Political Science*[3]

Anthony J. Litwinko MA (University of Pennsylvania) *Instructor in English*

[1] On leave, semester I, 1970-71.
[2] On leave, 1970-71.
[3] On leave, semester II, 1970-71.

Adrienne R. Lockhart MA (University of Sydney) *Lecturer in English*

Irma S. Lustig PHD (University of Pennsylvania) *Lecturer in English*

Frank B. Mallory PHD (California Institute of Technology) *Professor of Chemistry*[1]

Helen Taft Manning PHD (Yale University) *Professor Emeritus of History*

Arthur S. Marks PHD (University of London) *Assistant Professor of History of Art*

Mario Maurin PHD (Yale University) *Professor of French*

Franz H. Mautner PHD (University of Vienna) *Visiting Professor of German,* on joint appointment with Swarthmore College

Ethel W. Maw PHD (University of Pennsylvania) *Associate Professor of Education and Child Development*

Susan E. Maxfield MS (Syracuse University) *Associate Professor of Education and Child Development and Director of the Thorne School*

Katharine Elizabeth McBride PHD (Bryn Mawr College) LLD LHD LITT D SCD *President Emeritus of the College*

Clark McCauley, Jr. PHD (University of Pennsylvania) *Assistant Professor of Psychology*

Russell K. McCormmach PHD (Case Western Reserve University) *Visiting Lecturer in the History of Science*

Mary Patterson McPherson PHD (Bryn Mawr College) *Dean of the Undergraduate College* and *Associate Professor of Philosophy*

Cornelia Lynde Meigs AB (Bryn Mawr College) *Professor Emeritus of English Composition*

Machteld Mellink PHD (University of Utrecht) *Professor of Classical and Near Eastern Archaeology*

Fritz Mezger PHD (University of Berlin) *Professor Emeritus of Germanic Philology*

Agnes Kirsopp Michels PHD (Bryn Mawr College) *Professor of Latin, Andrew W. Mellon Professor of Humanities*

Walter C. Michels PHD (California Institute of Technology) *Marion Reilly Professor of Physics*

Charles Mitchell MA B LITT (Oxford University) LITT D *Professor of History of Art*[1]

Irene Nagurski PHD (Columbia University) *Assistant Professor of Russian*

Milton Charles Nahm B LITT (Oxford University) PHD (University of Pennsylvania) *Leslie Clark Professor of Philosophy*

Carl Nylander PHD (Uppsala University) *Lecturer in Classical and Near Eastern Archaeology*

[1] On leave, 1970-71.

Katherine O'Connor MA (Harvard University) *Lecturer in Russian*

John R. Olson PHD (Iowa State University) *Assistant Professor of Physics*[1]

Jane M. Oppenheimer PHD (Yale University) *Class of 1897 Professor of Biology*

Joseph Orkwiszewski MS (Villanova University) *Lecturer in Biology*

John C. Oxtoby MA (University of California) *Professor of Mathematics*

Nicholas Patruno MA (Rutgers University) *Lecturer in Italian*

Eleanor K. Paucker PHD (University of Pennsylvania) *Assistant Professor of Spanish*

Ruth L. Pearce PHD (University of Pennsylvania) *Associate Professor of Russian*

Emmy A. Pepitone PHD (University of Michigan) *Assistant Professor of Education and Child Development*

Kyle Phillips, Jr. PHD (Princeton University) *Associate Professor of Classical and Near Eastern Archaeology*

Lucian B. Platt PHD (Yale University) *Associate Professor of Geology*

Judith R. Porter PHD (Harvard University) *Assistant Professor of Sociology*

Jean A. Potter PHD (Yale University) *Professor of Philosophy*

David J. Prescott PHD (University of Pennsylvania) *Assistant Professor of Biology*

John R. Pruett PHD (Indiana University) *Professor of Physics*

Patricia Onderdonk Pruett PHD (Bryn Mawr College) *Associate Dean of the Undergraduate College* and *Dean of the Class of 1973* and *Lecturer in Biology*

C. Earl Ramsey PHD (University of Florida) *Assistant Professor of English*[1]

William H. Reese PHD (University of Berlin) *Director of Orchestra*

Brunilde Sismondo Ridgway PHD (Bryn Mawr College) *Professor of Classical and Near Eastern Archaeology*

Beth M. Riser MA (Bryn Mawr College) *Instructor in Education and Child Development*

William J. Roach PHD (University of Chicago) *Visiting Professor of Old French*

Caroline Robbins PHD (University of London) *Marjorie Walter Goodhart Professor of History*

Allen C. Rogerson PHD (Dartmouth University) *Assistant Professor of Biology*

[1] On leave, 1970-71.

Marc Howard Ross PHD (Northwestern University) *Assistant Professor of Political Science*

Stephen Salkever MA (University of Chicago) *Assistant Professor of Political Science*

J. H. M. Salmon MLITT (Cambridge University) LITD (Victoria University) *Professor of History*

William Bruce Saunders PHD (University of Iowa) *Assistant Professor of Geology*

Eugene V. Schneider PHD (Harvard University) *Professor of Sociology*

James W. Scott MA (Princeton University) *Lecturer in German*

Russell T. Scott PHD (Yale University) *Assistant Professor of Latin*[1]

Serge Serodes *Agrégé* (Sorbonne) *Lecturer in French*

Alain Silvera PHD (Harvard University) *Associate Professor of History*

James E. Snyder PHD (Princeton University) *Associate Professor of History of Art*

Martin Avery Snyder PHD (New York University) *Assistant Professor of Mathematics*

Faye P. Soffen PHD (University of Pennsylvania) *Assistant Professor of Education and Child Development*

Arthur Colby Sprague PHD (Harvard University) *Professor Emeritus of English Literature*

K. Laurence Stapleton AB (Smith College) *Mary E. Garrett Alumnae Professor of English Literature*

Isabel Scribner Stearns PHD (Bryn Mawr College) *Professor of Philosophy*

Larry Stein PHD (University of Iowa) *Visiting Professor of Psychology*

William E. Steslicke PHD (University of Michigan) *Lecturer in Political Science*

James Tanis THD (University of Utrecht) *Director of Libraries* and *Professor of History*

Arnold W. Thackray PHD (Cambridge University) *Visiting Lecturer in the History of Science*

Earl Thomas PHD (Yale University) *Assistant Professor of Psychology*

Phyllis Turnbull *D en FL* (University of Madrid) *Associate Professor of Spanish* and *Advisor to Foreign Students*

Myra L. Uhlfelder PHD (Bryn Mawr College) *Associate Professor of Latin*

Joseph Varimbi PHD (University of Pennsylvania) *Associate Professor of Chemistry*

[1] On leave, 1970-71.

Edward H. Watson PHD (Johns Hopkins University) *Professor of Geology*

George E. Weaver, Jr. MA (University of Pennsylvania) *Lecturer in Philosophy*

Elizabeth Welles MA (Yale University) *Lecturer in Italian*

Roger Hewes Wells PHD (Harvard University) *Professor Emeritus of Political Science*

Martin Wenglinsky MA (University of California) *Lecturer in Sociology*

Harris Llewellyn Wofford, Jr. AB (University of Chicago) LLB (Howard University and Yale University) *President of the College*

Mary Katharine Woodworth PHD (Bryn Mawr College) *Professor Emeritus of English*

Dorothy Wyckoff PHD (Bryn Mawr College) *Professor Emeritus of Geology*

Matthew Yarczower PHD (University of Maryland) *Associate Professor of Psychology*

J. Maitland Young MS MPHIL (Yale University) *Assistant Professor of Chemistry*

George L. Zimmerman PHD (University of Chicago) *Professor of Chemistry*

Officers of Administration

Carol Biba AB (University of Wisconsin) *Director of Public Information*

John A. Briscoe MA (Harvard University) *Assistant to the President*

Marcella H. Congdon AB (University of North Carolina) *Director of the Office of Career Planning and Placement*

Paul W. Klug CPA BS (Temple University) *Comptroller and Business Manager of the College*

Dorothy Nepper Marshall PHD (Bryn Mawr College) *Consultant for Development*

Edith H. McGrath *Executive Assistant to the President*

Julie E. Painter AB (Bryn Mawr College) *Administrator of Records*

Martha Stokes Price AB (Bryn Mawr College) *Director of the Resources Committee*

Thomas N. Trucks BS (Villanova University) *Superintendent of Buildings and Grounds*

Phyllis Turnbull *D en FL* (University of Madrid) *Advisor to Foreign Students and Associate Professor of Spanish*

Sarah E. Wright, *Director of Halls*

Health

Frieda W. Woodruff MD (University of Pennsylvania) *College Physician*

Anne Lee Delano MA (Columbia University) *Director of Physical Education*

John F. Howkins, MD (Columbia University, College of Physicians and Surgeons) *Consulting Psychiatrist*

Howard B. Smith MD (Jefferson Medical College) *Consulting Psychiatrist*

Library

James Tanis THD (University of Utrecht) *Director of Libraries*

Thomas Song MALS (University of Michigan) *Associate Director of Libraries*

John Dooley MLS (McGill University) *Head, Reclassification Project*

Dorothy V. McGeorge BSLS (Drexel Institute) *Head, Acquisitions Department*

Catherine E. Pabst MSLS (Drexel Institute) *Acquisitions Librarian*

Gertrude Reed MSLS (Rutgers University) *Reference Librarian*

Pamela G. Reilly MSLS (Drexel Institute) *Head, Public Services Department*

Dorothy M. Sugarbaker MSLS (Drexel Institute) *Cataloguing Librarian*

Pauline A. Taffe MSLS (Villanova University) *Cataloguing Librarian*

Yildiz van Hulsteyn MSLS (Drexel Institute) *Head, Art-Archaeology and Music Libraries*

Jane Walker BSLS (Simmons College) *Head, Cataloguing Department*

Ethel W. Whetstone ABLS (University of North Carolina) *Head, Sciences and Social Sciences Libraries*

Child Study Institute

Janet L. Hoopes PHD (Bryn Mawr College) *Director*

Jean Ager AB (Western College for Women) *Part-time Psychologist*

Shirley Alrich MA (Bryn Mawr College) *Counselor*

Eleanor Beatty MA (George Washington University) *Psychologist*

Hannah Beiter AB (State College of New Jersey) *Remedial Reading Teacher*

Gwendolyn A. Binegar MSS (Bryn Mawr College) *Caseworker*

Lelia Brodersen MA (Temple University) *Chief Psychologist*

Marjorie Edwards MSS (Bryn Mawr College) *Part-time Social Caseworker*

Anne D. Emmons MS (University of Pennsylvania) *Remedial Reading Teacher*

Kathleen Finnegan MA (Temple University) *Psychological Assistant*

Joel Goldstein MD (Jefferson Medical School) *Consulting Psychiatrist*

Constance Grant BS (University of Pennsylvania) *Remedial Reading Teacher*

Anita Grinnell MS (University of Pennsylvania) *Part-time Psychologist*

Virginia G. Keen MSW (University of Pennsylvania School of Social Work), *Social Caseworker*

Nina Korch AB (University of Pennsylvania) *Part-time Counselor*

Frederic J. Kwapien MD (Tufts University School of Medicine) *Consulting Psychiatrist*

Nancy Outley MSW (University of Pennsylvania School of Social Work) *Part-time Social Caseworker*

Christine Patzau MSW (University of Pennsylvania School of Social Work) *Part-time Social Caseworker*

Myra E. Pottash MA (Bryn Mawr College) *Psychologist*

Beth M. Riser MA (Bryn Mawr College) *Remedial Reading Teacher*

Beatrice Schneider MSS (Bryn Mawr College) *Part-time Social Caseworker*

Jean Slavin MA (Columbia University Teachers' College) *Remedial Reading Teacher*

Herman Staples MD (Hahnemann Medical College) *Consulting Psychiatrist*

Elsie Waelder MSW (Western Reserve University) *Chief Social Worker*

Isabel Westfried MA (Bryn Mawr College) *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield MS (Syracuse University) *Director*

Elva Pepper MA (Haverford College) *Teacher*

Linda Barr AB (Lindenwood College) *Assistant Teacher*

Judith Hedrick AB (Adelphi Suffolk College) *Assistant Teacher*

The Council of the Graduate School of Arts and Sciences

Dean Foster *Chairman*
President Wofford *ex officio*
Mr Burlin
Mr Conner
Mr Dudden
Miss Goodale
Mr Guggenheim
Miss Hoyt
Mrs King
Mrs Lachs
Miss Mellink
Mr James Snyder
Mr Vosburgh

Index

Academic Departments 3
Administrative Officers 94-95
Admission, to the Graduate School of Arts and Sciences 6
to Graduate Courses 7
Anthropology 16-18
Application for Admission 6
for Financial Aid 7
for Residence 82
Archaeology, Classical and Near Eastern 25-27
Art, History of 48-49
Arts and Sciences, Graduate School of 3
Assistantships 78-79
Avignon, Summer Institute 12
Awards, Academic 74-79

Biochemistry 21
Biology 18-21
Board of Directors 85
Committees of 86
Boyce Collection, Aline A. 9
Buildings and Grounds Committee, Directors 86

Calendar for the Academic Year 4-5
Canaday Collection, Ward M. 9
Career Planning and Placement, Office of 81
Centro de Estudios Hispánicos 12
Chemistry 21-24
Child Study Institute 31
Classical and Near Eastern Archaeology 25-27
Committees of Board of Directors 86
Comparative Philology and Linguistics 27-28
Computer Center 10
Computer, Course on 20
Council of the Graduate School of Arts and Sciences 97
Courses 16-71
Curtis Collection, Densmore 9

Degree Candidacy 8
Degree Requirements 13-15
Dillingham Collection 9
Directors, Board of 85
Committees of 86
Doctor of Philosophy, degree 13-14
Duties of Fellows and Scholars 78

Economics 28-29
Education and Child Development 30-32
Employment 81
English 33-35
Excavations 26
Exclusion from the College 73
Executive Committee, Directors 86
Expenses 72-73

Faculty 87-94
Fees 72-73
Fellowships 74-77
Finance Committee, Directors 86
Financial Aid 74-79
Foreign Students, Application 7
Financial Aid 7
Scholarships 77
French 35-37

Geology 38-39
German 40-42
Goldman Collection, Hetty 9
Goodhart, Marjorie Walter, Mediaeval Library 9
Gordan, John D., Reference Center 9
Graduate Prize 79
Graduate Record Examinations 6
Graduate Residence Center 82
Graduate Student Council 81
Greek 42-43

Health 83-84, 94
History 43-46
History and Philosophy of Science 46-48
History of Art 48-49
History of Religion 50
Housing 82

Infirmary 83
Institut d'Etudes françaises d'Avignon 12
Insurance, Health 84
Italian 50

King Collection, Elisabeth W. 9

Laboratories 10
Language Requirements 6
Latin 51-52
Libraries 9
Mariam Coffin Canaday 9
M. Carey Thomas 9
Auxiliary Libraries 9
Library Committee, Directors 86
Library Staff 95
Linguistics 27-28
Loan Funds 80

Madrid, Summer Institute 12
Master of Arts, degree 14-15
Mathematics 53-54
Mediaeval Studies 55-56
Music 56-57

Officers
Administrative 94-95
Board of Directors 85

Phebe Anna Thorne School 31
Philology 27-28
Philosophy 58-60
Philosophy of Science 46-48
Physical Examination 83-84

Physics 60-63
Plan for Coordination in the Sciences 10, 76
Political Science 63-65
Program of Study 11-12, 16-71
Psychology 65-67

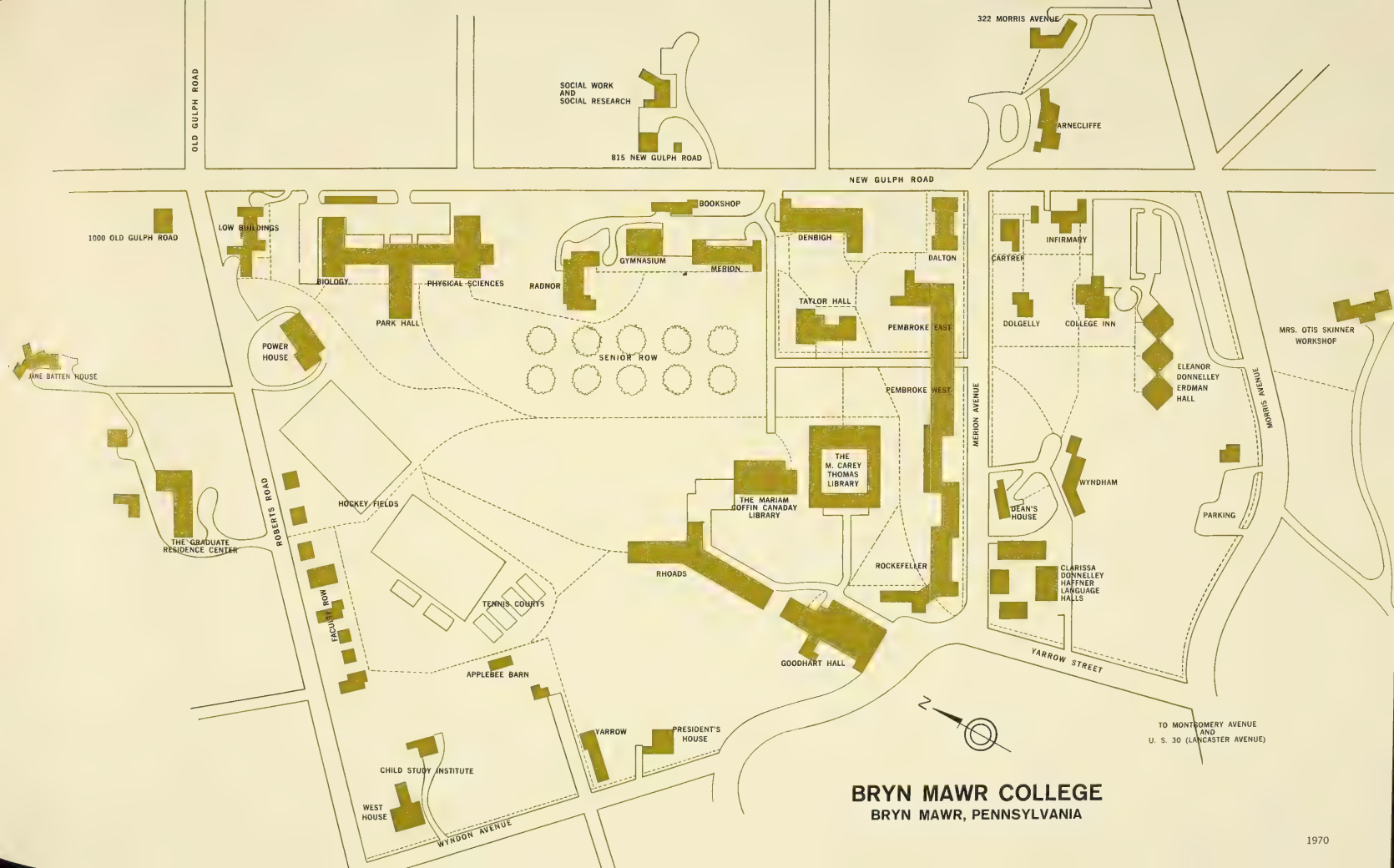
Rare Book Room 9
Reciprocal Plan, University of Pennsylvania 11
Registration 7
Riegel Museum, Ella 9
Religion, History of 50
Religious Life Committee, Directors 86
Requirements for Admission 6
for Degrees 13-15
Residence Center 82
Resources for Graduate Work 9-10
Russian 67-68

Scholarships 77-79
Science Center 10
Sciences, Plan for Coordination in 10, 76
Seminars and Courses 16-71
Social Work and Social Research, Graduate School 3
Sociology 68-69
Spanish 70-71
Staff, Academic and Administrative 87-96
Student Employment 81
Summer Work 12

Teaching Certification 30
Trustees 85
Tuition 72
Tuition Grants 79
Tuition Scholarships 77

University of Pennsylvania, Reciprocal Plan 11
U.S. Army Map Collection 10

Vaux Collection, George Jr. 10



BRYN MAWR COLLEGE

BRYN MAWR, PENNSYLVANIA

1970

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Penn Central Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

1970-71

Bryn Mawr College Calendar

BRYN MAWR

Undergraduate College

1970-71

Bryn Mawr College Calendar

Undergraduate Courses

Issue for the Session of 1970-71

August 1970, Volume LXIII, Number 3

Visitors to the College are welcome, and when the College is in session student guides are available to show visitors the campus. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

Correspondence

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010. Telephone: 215 LA 5-1000.

Correspondence about the following subjects should be addressed to:

The President
General interests of the College

The Dean
Academic work, personal welfare and health of the students

The Director of Admissions
Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School of Arts and Sciences
Admission and graduate scholarships

The Dean of the Graduate School of Social Work and Social Research
Admission and graduate scholarships

The Director of Halls
Rooms in the halls of residence

The Comptroller
Payment of bills

The Director of Office of Career Planning and Placement
Recommendations for positions and inquiries about students' self-help

The Alumnae Association
Regional scholarships and loan fund

Bryn Mawr College Calendar. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

Second Class Postage paid at Bryn Mawr, Pa.

Contents

	PAGE
Academic Schedule	4
The Trustees, Directors and Committees of the Board	6
The Faculty and Staff	8
Introduction	21
Admission	26
To the Freshman Class	26
Of Transfer and of Foreign Students	29
Readmission	30
Leaves of Absence	31
Academic Facilities and Residence	32
Tuition and Residence Fees	38
General Information	40
Student Advising	40
Academic Standards and Regulations	40
Health	41
Curriculum	44
Premedical Preparation	48
Preparation to Teach	49
Coordination in the Sciences	49
Credit for Creative Work in the Arts	50
Language Houses	50
Summer Institutes Abroad	50
The Junior Year Abroad	51
Courses of Study	53
Departmental Courses	54
Interdepartmental Courses	139
Fine Art, Performing Arts	141
Physical Education	142
Financial Aid	144
Scholarship Funds	146
Prizes and Academic Awards	162
Scholarships for Medical Study	166
Loan Funds	167
Employment and Vocational Counseling	170
Alumnae Representatives	171
Index	177

Academic Schedule 1970-71

1970	*First Semester*
September 9.	Halls of residence open to entering class at 8 a.m. Registration of entering undergraduate students. Deferred examinations begin.
September 12.	Halls of residence open to returning undergraduates at 8 p.m.
September 13.	Enrolment of returning undergraduate students.
September 14.	Work of the 86th academic year begins at 9 a.m.
September 15.	Deferred examinations end.
October 3.	French examinations for undergraduates.
October 10.	German examinations for undergraduates. Italian, Spanish, Russian and Statistics examinations for graduate students.
October 24.	Italian and Spanish examinations for undergraduates. French examinations for graduate students.
October 30.	Greek, Latin and Russian examinations for undergraduates. German examinations for graduate students.
November 4.	Hygiene examination at 8:30 p.m.
November 7.	Mathematics examinations for undergraduates.
November 25.	Thanksgiving Holiday begins after last class.
November 30.	Thanksgiving Holiday ends at 9 a.m.
December 18.	Christmas vacation begins at 12:45 p.m. Last day of Lectures.
1971	
January 4.	Christmas vacation ends at 9 a.m. Review Period begins.
January 6.	Review Period ends.
January 7.	College examinations begin.

January 9.	Language examinations for Seniors Conditioned.
January 15.	College examinations end.
January 16.	Intersession begins.
January 24.	Intersession ends.
	Second Semester
January 25.	Work of the Second Semester begins at 9 a.m.
February 27.	Italian, Russian, Spanish and Statistics examinations for graduate students.
March 6.	French examinations for graduate students.
March 13.	Mathematics examinations for undergraduates. German examinations for graduate students.
March 19.	Spring vacation begins after last class.
March 29.	Spring vacation ends at 9 a.m. Deferred examinations begin.
April 3.	Deferred examinations end. German examinations for undergraduates.
April 10.	Greek, Latin and Russian examinations for undergraduates.
April 17.	French examinations for undergraduates.
April 23-25.	Geology Field Trip.
May 1.	Italian and Spanish examinations for undergraduates.
May 7.	Last day of Lectures.
May 8-10.	Review Period.
May 11-20.	College examinations.
May 24.	Conferring of degrees and close of 86th academic year.
May 29.	Alumnae Day.

The Trustees of Bryn Mawr College

Edmund B. Spaeth, Jr., *President*
Millicent Carey McIntosh[1]
Vice-President
John E. Forsythe
Treasurer
J. Tyson Stokes
Assistant Treasurer

Elizabeth Gray Vining[2]
Vice-President
Millicent Carey McIntosh[1]
Secretary
Edith H. McGrath[3]
Assistant Secretary

Trustees
Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Edmund B. Spaeth, Jr.
Henry Scattergood
Alison Stokes MacLean[4]
Lelia Woodruff Stokes[5]
Trustee Emeritus

The Board of Directors

Edmund B. Spaeth, Jr., *Chairman*
Eleanor Little Aldrich[6]
Vice-Chairman
John E. Forsythe
Treasurer
J. Tyson Stokes
Assistant Treasurer

Elizabeth Gray Vining[2]
Vice-Chairman
Millicent Carey McIntosh[1]
Secretary
Edith H. McGrath[3]
Assistant Secretary

Directors
Millicent Carey McIntosh[1]
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining[2]
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Jonathan E. Rhoads
James Wood
Henry Scattergood
Alison Stokes MacLean[4]
Edmund B. Spaeth, Jr.
Harris L. Wofford, Jr.
Eleanor Little Aldrich[6]
J. Tyson Stokes
Phyllis Goodhart Gordan[7]
Alice Palache Jones[8]
Agnes Clement Ingersoll[9]
Lewis N. Lukens
Elizabeth Pearson Horrocks[10]
Alumnae Director, 1965-70
Margaret Tyler Paul[11]
Alumnae Director, 1966-71
Clarissa Wardwell Pell[12]
Alumnae Director, 1967-72
Emily Townsend Vermeule[13]
Alumnae Director, 1968-73
Edith Harris West[14]
Alumnae Director, 1969-74
Barbara Auchincloss Thacher[15]
Alumnae Director, 1970-75
Barbara Cooley McNamee[16] *by invitation*
President of the Alumnae Association

Standing Committees of the Board of Directors for 1970

Executive Committee
Judge Spaeth, *Chairman*
Mrs. Aldrich
Mr. Cadbury
Mr. Forsythe
Mrs. Gordan
Mrs. McIntosh
Mr. Rhoads
Mr. Stokes
Mr. Wofford

Buildings and Grounds Committee
Mr. Rhoads, *Chairman*
Mrs. Gordan, *Vice-Chairman*
Mrs. Horrocks
Mrs. Ingersoll
Mrs. Paul
Mr. Price
Mrs. West
Mr. Wofford

Finance Committee
Mr. Forsythe, *Chairman*
Mrs. Jones
Mr. Price
Mr. Stokes
Mr. Terrell
Mr. Wood

Library Committee
Mrs. Gordan, *Chairman*
Mrs. Aldrich
Mrs. Pell
Mrs. Vermeule
Mrs. Vining
Mr. Wofford

Religious Life Committee
Mrs. Paul, *Chairman*
Mr. Cadbury
Mrs. Ingersoll
Mrs. McIntosh
Dr. Rhoads
Mrs. Vining
Mr. Wofford

1. Mrs. Rustin McIntosh
2. Mrs. Morgan Vining
3. Mrs. Thomas F. McGrath
4. Mrs. Paul D. MacLean
5. Mrs. Francis J. Stokes
6. Mrs. Talbot Aldrich
7. Mrs. John D. Gordan
8. Mrs. Russell K. Jones
9. Mrs. C. Jared Ingersoll
10. Mrs. Thomas S. Horrocks
11. Mrs. Samuel H. Paul
12. Mrs. Francis L. Pell
13. Mrs. Cornelius C. Vermeule III
14. Mrs. William Nelson West
15. Mrs. Thomas Thacher
16. Mrs. Daniel V. McNamee, Jr.

Bryn Mawr College Faculty and Staff

For the Academic Year, 1970-71

Harris Llewellyn Wofford, Jr., A.B. (University of Chicago), LL.B. (Howard University and Yale University), *President of the College*

Katharine Elizabeth McBride, PH.D. (Bryn Mawr College), LL.D., L.H.D., LITT.D., SC.D., *President Emeritus of the College*

Mary Patterson McPherson, PH.D. (Bryn Mawr College), *Dean of the College*

Elizabeth Read Foster, PH.D. (Yale University), *Dean of the Graduate School of Arts and Sciences*

Bernard Ross, PH.D. (University of Michigan), *Dean of the Graduate School of Social Work and Social Research*

Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*

James Tanis, TH.D. (University of Utrecht), *Director of Libraries*

Elizabeth G. Vermey, M.A. (Wesleyan University), *Director of Admissions*

Frieda W. Woodruff, M.D. (University of Pennsylvania), *College Physician*

Emeriti

Janet Margaret Agnew, B.L.S. (McGill University), M.A. (University of Manitoba), *Librarian Emeritus*

Horace Alwyne, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music*

Eleanor A. Bliss, SC.D. (Johns Hopkins University), *Dean Emeritus*

Rhys Carpenter, PH.D. (Columbia University), LITT.D., *Professor Emeritus of Classical Archaeology*

Grace Mead Andrus de Laguna, PH.D. (Cornell University), *Professor Emeritus of Philosophy*

Max Diez, PH.D. (University of Texas), *Professor Emeritus of German Literature*

Lincoln Dryden, PH.D. (Johns Hopkins University), *Professor Emeritus of Geology*

Charles Ghèquière Fenwick, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*

Grace Frank, A.B. (University of Chicago), *Professor Emeritus of Old French*

Mary Summerfield Gardiner, PH.D. (Bryn Mawr College), *Professor Emeritus of Biology*

Myra Richards Jessen, PH.D. (Bryn Mawr College), *Professor Emeritus of German*

Marguerite Lehr, PH.D. (Bryn Mawr College), *Professor Emeritus of Mathematics*

Angeline Helen Lograsso, PH.D. (Radcliffe College), *Professor Emeritus of Italian*
Helen Taft Manning, PH.D. (Yale University), *Professor Emeritus of History*
Katharine Elizabeth McBride, PH.D. (Bryn Mawr College), LL.D., L.H.D., LITT.D., SC.D., *President Emeritus of the College*
Cornelia Lynde Meigs, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
Fritz Mezger, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
Arthur Colby Sprague, PH.D. (Harvard University), *Professor Emeritus of English Literature*
Roger Hewes Wells, PH.D. (Harvard University), *Professor Emeritus of Political Science*
Mary Katharine Woodworth, PH.D. (Bryn Mawr College), *Professor Emeritus of English*
Dorothy Wyckoff, PH.D. (Bryn Mawr College), *Professor Emeritus of Geology*

Professors

Mabel L. Lang, PH.D. (Bryn Mawr College), *Professor of Greek and Secretary of the General Faculty*

Hans Bänziger, PH.D. (University of Zurich), *Professor of German*
Ernst Berliner, PH.D. (Harvard University), *W. Alton Jones Professor of Chemistry*
Robert B. Burlin, PH.D. (Yale University), *Professor of English*
Robert L. Conner, PH.D. (Indiana University), *Professor of Biology*
Rachel Dunaway Cox, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*
Frederic Cunningham, Jr., PH.D. (Harvard University), *Professor of Mathematics*
Frances de Graaff, PH.D. (University of Leyden), *Professor of Russian*[4]
Frederica de Laguna, PH.D. (Columbia University), *Professor of Anthropology*
Arthur P. Dudden, PH.D. (University of Michigan), *Professor of History*
José María Ferrater Mora, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*

N.B. The notations throughout this section refer to the following footnotes:
1. On leave of absence, 1970-71.
2. On sabbatical leave, 1970-71.
3. On leave of absence with Junior Faculty Research Award, 1970-71.
4. On sabbatical leave, semester I, 1970-71.
5. On leave of absence, semester I, 1970-71.
6. On leave of absence, semester I; on sabbatical leave, semester II, 1970-71.
7. On sabbatical leave, semester II, 1970-71.

Elizabeth Read Foster, PH.D. (Yale University), *Dean of the Graduate School of Arts and Sciences and Professor of History*

Richard C. Gonzalez, PH.D. (University of Maryland), *Professor of Psychology*

Joaquin González Muela, *D. en F.L.* (University of Madrid), *Professor of Spanish*

Robert L. Goodale, A.B., B.MUS. (Yale University), A.A.G.O., *Alice Carter Dickerman Professor of Music*

Michel Guggenheim, PH.D. (Yale University), *Professor of French*

Howard S. Hoffman, PH.D. (University of Connecticut), *Professor o Psychology*

Janet L. Hoopes, PH.D. (Bryn Mawr College), *Professor of Education and Child Development and Director of the Child Study Institute*

Rosalie C. Hoyt, PH.D. (Bryn Mawr College), *Professor of Physics*

Joshua C. Hubbard, PH.D. (Harvard University), *Professor of Economics*

Agi Jambor, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*

Howard C. Kee, PH.D. (Yale University), *Rufus Jones Professor of History of Religion*

Melville T. Kennedy, Jr., PH.D. (Harvard University), *Professor of Political Science*[1]

Willard F. King, PH.D. (Brown University), *Professor of Spanish*

George L. Kline, PH.D. (Columbia University), *Professor of Philosophy*[6]

Richmond Lattimore, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*

Gertrude C. K. Leighton, A.B. (Bryn Mawr College), LL.B. (Yale University), *Professor of Political Science*[7]

Philip Lichtenberg, PH.D. (Western Reserve University), *Professor of Social Work and Social Research*

Katherine D. K. Lower, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*

Frank B. Mallory, PH.D. (California Institute of Technology), *Professor of Chemistry*[2]

Mario Maurin, PH.D. (Yale University), *Professor of French*

Franz H. Mautner, PH.D. (University of Vienna), *Visiting Professor of German, on joint appointment with Swarthmore College*

Machteld Mellink, PH.D. (University of Utrecht), *Professor of Classical and Near Eastern Archaeology*

Agnes Kirsopp Michels, PH.D. (Bryn Mawr College), *Professor of Latin, Andrew W. Mellon Foundation Professor of Humanities*

Walter C. Michels, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*

Charles Mitchell, M.A., B.LITT. (Oxford University), LITT.D., *Professor of History of Art*[1]

Milton Charles Nahm, B.LITT. (Oxford University), PH.D. (University of Pennsylvania), *Leslie Clark Professor of Philosophy*

Jane M. Oppenheimer, PH.D. (Yale University), *Class of 1897 Professor of Biology*

John C. Oxtoby, M.A. (University of California), *Professor of Mathematics*

Jean A. Potter, PH.D. (Yale University), *Professor of Philosophy*

John R. Pruett, PH.D. (Indiana University), *Professor of Physics*

Martin Rein, PH.D. (Brandeis University), *Visiting Professor of Social Work and Social Research*

Brunilde Sismondo Ridgway, PH.D. (Bryn Mawr College), *Professor of Classical and Near Eastern Archaeology*

William J. Roach, PH.D. (University of Chicago), *Visiting Professor of Old French*

Caroline Robbins, PH.D. (University of London), *Marjorie Walter Goodhart Professor of History*

Bernard Ross, PH.D. (University of Michigan), *Dean of the Graduate School of Social Work and Social Research and Professor of Social Work and Social Research*

J. H. M. Salmon, M.LITT. (Cambridge University), LIT.D. (Victoria University), *Professor of History*

Eugene V. Schneider, PH.D. (Harvard University), *Professor of Sociology*

Milton D. Speizman, PH.D. (Tulane University), *Professor of Social Work and Social Research*

K. Laurence Stapleton, A.B. (Smith College), *Mary E. Garrett Alumnae Professor of English Literature*

Isabel Scribner Stearns, PH.D. (Bryn Mawr College), *Professor of Philosophy*

Larry Stein, PH.D. (University of Iowa), *Visiting Professor of Psychology*

James Tanis, TH.D. (University of Utrecht), *Director of Libraries and Professor of History*

Edward H. Watson, PH.D. (Johns Hopkins University), *Professor of Geology*

George L. Zimmerman, PH.D. (University of Chicago), *Professor of Chemistry*

Associate Professors

Mary Maples Dunn, PH.D. (Bryn Mawr College), *Associate Professor of History and Secretary of the Faculty of Arts and Sciences*

Jay Martin Anderson, PH.D. (Harvard University), *Associate Professor of Chemistry*

Ethan D. Bolker, PH.D. (Harvard University), *Associate Professor of Mathematics*

Charles M. Brand, PH.D. (Harvard University), *Associate Professor of History*

Merle Broberg, PH.D. (The American University), *Associate Professor of Social Work and Social Research*

Robert H. Butman, M.A. (University of North Carolina), *Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford College*

Isabelle Cazeaux, PH.D. (Columbia University), *Associate Professor of Music*

Gérard Defaux, *Agrégé* (Sorbonne), *Associate Professor of French*
Charles G. Dempsey, PH.D. (Princeton University), *Associate Professor of History of Art*
Richard B. Du Boff, PH.D. (University of Pennsylvania), *Associate Professor of Economics*
Charles E. Frye, PH.D. (Princeton University), *Associate Professor of Political Science*
Jane C. Goodale, PH.D. (University of Pennsylvania), *Associate Professor of Anthropology*
Jean Haring, D.S.W. (Western Reserve University), *Associate Professor of Social Work and Social Research*
Thomas Jackson, PH.D. (Yale University), *Associate Professor of English*
Fritz Janschka, Akad. Maler (Akademie der Bildenden Kunste), *Associate Professor of Fine Art*
M. Pauline Jones, PH.D. (Bryn Mawr College), *Associate Professor of French*[5]
Joseph Kramer, PH.D. (Princeton University), *Associate Professor of English*
Jane C. Kronick, PH.D. (Yale University), *Associate Professor of Social Work and Social Research*
Barbara M. Lane, PH.D. (Harvard University), *Associate Professor of History*
Ethel W. Maw, PH.D. (University of Pennsylvania), *Associate Professor of Education and Child Development*
Susan E. Maxfield, M.S. (Syracuse University), *Associate Professor of Education and Child Development and Director of the Thorne School*
Mary Patterson McPherson, PH.D. (Bryn Mawr College), *Dean of the College and Associate Professor of Philosophy*
Ruth L. Pearce, PH.D. (University of Pennsylvania), *Associate Professor of Russian*
Kyle Phillips, Jr., PH.D. (Princeton University), *Associate Professor of Classical and Near Eastern Archaeology*
Lucian B. Platt, PH.D. (Yale University), *Associate Professor of Geology*
Jeanne C. Pollock, M.S.W. (University of Pennsylvania), *Associate Professor of Social Work and Social Research*
Alain Silvera, PH.D. (Harvard University), *Associate Professor of History*
James E. Snyder, PH.D. (Princeton University), *Associate Professor of History of Art*
Ruth O. Stallfort, M.S.S. (Simmons College School of Social Work), *Associate Professor of Social Work and Social Research*
Phyllis Turnbull, *D. en F.L.* (University of Madrid), *Associate Professor of Spanish and Advisor to Foreign Students*
Myra L. Uhlfelder, PH.D. (Bryn Mawr College), *Associate Professor of Latin*
Joseph Varimbi, PH.D. (University of Pennsylvania), *Associate Professor of Chemistry*
William W. Vosburgh, PH.D. (Yale University), *Associate Professor of Social Work and Social Research*[4]
Matthew Yarczower, PH.D. (University of Maryland), *Associate Professor of Psychology*

Greta Zybon, D.S.W. (Western Reserve University), *Associate Professor of Social Work and Social Research*

Assistant Professors

Mark B. Adams, M.A. (Harvard University), *Assistant Professor of the History of Science, on joint appointment with the University of Pennsylvania*

Maria Luisa B. Crawford, PH.D. (University of California), *Assistant Professor of Geology*

William A. Crawford, PH.D. (University of California), *Assistant Professor of Geology*

Charles A. Culotta, PH.D. (University of Wisconsin), *Assistant Professor of the History of Science, on joint appointment with the University of Pennsylvania*

Roger W. Cummins, PH.D. (University of Minnesota), *Assistant Professor of English*

Gwenn Davis, PH.D. (University of Michigan), *Assistant Professor of English*

Gregory W. Dickerson, M.A. (Princeton University), *Assistant Professor of Latin and Greek*

Nancy C. Dorian, PH.D. (University of Michigan), *Assistant Professor of German*

Sally Hollingsworth, M.S.S. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*

Anthony R. Kaney, PH.D. (University of Illinois), *Assistant Professor of Biology*

Philip A. Kilbride, PH.D. (University of Missouri), *Assistant Professor of Anthropology*

June Q. Koch, PH.D. (Columbia University), *Assistant Professor of English*

Michael Krausz, PH.D. (University of Toronto), *Assistant Professor of Philosophy*

Catherine Lafarge, PH.D. (Yale University), *Assistant Professor of French*[3]

Joyce Lewis, M.S.S. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*

Arthur S. Marks, PH.D. (University of London), *Assistant Professor of History of Art*

Clark McCauley, Jr., PH.D. (University of Pennsylvania), *Assistant Professor of Psychology*

Irene Nagurski, PH.D. (Columbia University), *Assistant Professor of Russian*

Dolores G. Norton, PH.D. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*

John R. Olson, PH.D. (Iowa State University), *Assistant Professor of Physics*[3]

Eleanor K. Paucker, PH.D. (University of Pennsylvania), *Assistant Professor of Spanish*

Emmy A. Pepitone, PH.D. (University of Michigan), *Assistant Professor of Education and Child Development*

Judith R. Porter, PH.D. (Harvard University), *Assistant Professor of Sociology*
David J. Prescott, PH.D. (University of Pennsylvania), *Assistant Professor of Biology*
C. Earl Ramsey, PH.D. (University of Florida), *Assistant Professor of English*[3]
Allen C. Rogerson, PH.D. (Dartmouth College), *Assistant Professor of Biology*
Marc Howard Ross, PH.D. (Northwestern University), *Assistant Professor of Political Science*
Stephen Salkever, M.A. (University of Chicago), *Assistant Professor of Political Science*
William Bruce Saunders, PH.D. (University of Iowa), *Assistant Professor of Geology*
Russell T. Scott, PH.D. (Yale University), *Assistant Professor of Latin*[3]
Martin Avery Snyder, PH.D. (New York University), *Assistant Professor of Mathematics*
Faye P. Soffen, PH.D. (University of Pennsylvania), *Assistant Professor of Education and Child Development*
Earl Thomas, PH.D. (Yale University), *Assistant Professor of Psychology*
Alice Whiting, M.S.W. (University of Michigan), *Assistant Professor of Social Work and Social Research*
Merilyn B. Woods, PH.D. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*
J. Maitland Young, M.S., M.PHIL. (Yale University), *Assistant Professor of Chemistry*

Lecturers

Alfonso M. Albano, PH.D. (State University of New York at Stony Brook), *Lecturer in Physics*
Herbert Aptheker, PH.D. (Columbia University), *Visiting Lecturer in History*
Katrin T. Bean, PH.D. (Bryn Mawr College), *Lecturer in German*
Erika Rossman Behrend, M.A. (University of Pennsylvania), *Part-time Lecturer in Psychology*
Frances Bondhus Berliner, PH.D. (Bryn Mawr College), *Lecturer in Chemistry*
Sandra M. Berwind, PH.D. (Bryn Mawr College), *Part-time Lecturer in English*
Christine Philpot Clark, A.B. (Bryn Mawr College), LL.B. (Yale University), *Consulting Dean and Part-time Lecturer in Political Science*
Lucienne Frappier-Mazur, *Agrégée* (University of Paris), *Visiting Lecturer in French*
Jeffry Galper, M.S. (Columbia University), *Part-time Lecturer in Social Work and Social Research*
Robert Gaston, D.PHIL. (University of London), *Lecturer in History of Art*

A. Irving Hallowell, PH.D. (University of Pennsylvania), *Visiting Lecturer in Anthropology*

Arthur C. Huntley, M.D. (Jefferson Medical College), *Part-time Lecturer in Social Work and Social Research*

Sandra I. Kohler, M.A. (Bryn Mawr College), *Dean of the Class of 1972 and Lecturer in English*

Charles C. Kolb, M.A. (Pennsylvania State University), *Lecturer in Anthropology*

Samuel Tobias Lachs, PH.D. (Dropsie College), *Visiting Lecturer in History of Religion*

Roland J. Lecomte, M.S.W. (Ottawa University), *Part-time Lecturer in Social Work and Social Research*

Adrienne R. Lockhart, M.A. (University of Sydney), *Lecturer in English*

Irma S. Lustig, PH.D. (University of Pennsylvania), *Lecturer in English*

Margaret S. Maurin, PH.D. (Bryn Mawr College), *Part-time Lecturer in French*

Jane R. McConnell, PH.D. (Bryn Mawr College), *Part-time Lecturer in Biology*

Russell K. McCormmach, PH.D. (Case Western Reserve University), *Visiting Lecturer in the History of Science*

Kate Millett, PH.D. (Columbia University), *Visiting Lecturer in Sociology*

Carl Nylander, PH.D. (Uppsala University), *Lecturer in Classical and Near Eastern Archaeology*

Katherine O'Connor, M.A. (Harvard University), *Lecturer in Russian*

Joseph Orkwiszewski, M.S. (Villanova University), *Lecturer in Biology*

Nicholas Patruno, M.A. (Rutgers University), *Lecturer in Italian*

Patricia Onderdonk Pruett, PH.D. (Bryn Mawr College), *Associate Dean and Dean of the Class of 1973 and Lecturer in Biology*

James W. Scott, M.A. (Princeton University), *Lecturer in German*

Serge Serodes, *Agrégé* (Sorbonne), *Lecturer in French*

Paul Sigmund, PH.D. (Harvard University), *Visiting Lecturer in Political Science*

William E. Steslicke, PH.D. (University of Michigan), *Lecturer in Political Science*

Arnold W. Thackray, PH.D. (Cambridge University), *Visiting Lecturer in the History of Science*

Jo-Anne E. Thomas, M.A.T. (Harvard University), *Assistant Dean for Student Affairs and Part-time Lecturer in Sociology*

Susan Wachter, M.A. (Radcliffe College), *Visiting Lecturer in Economics*

George E. Weaver, Jr., M.A. (University of Pennsylvania), *Lecturer in Philosophy*

Elizabeth Welles, M.A. (Yale University), *Lecturer in Italian*

Martin Wenglinsky, M.A. (University of California), *Lecturer in Sociology*

Instructors

Susan Burkhead, M.A. (University of Pennsylvania), *Part-time Instructor in French*
Jon-Henri Damski, M.A. (University of Washington), *Instructor in Latin*
Wilbert D. Jerome, M.MUS. (Temple University), *Instructor in Music*
Josette Khayat, M.A. (Hunter College), *Instructor in French*
Anthony J. Litwinko, M.A. (University of Pennsylvania), *Instructor in English*
Ramona L. Livingston, A.B. (William Jewell College), *Instructor in English*
Anne Mendelson, M.A. (Bryn Mawr College), *Instructor in English*
Beth Riser, M.A. (Bryn Mawr College), *Instructor in Education and Child Development*
Frederick Schulze, M.A. (Columbia University), *Instructor in Russian*
Helen Segall, B.S. (Simmons College), *Instructor in Russian*
Joan C. Stevens, A.B. (University of Pennsylvania), *Instructor in French*
William H. Reese, PH.D. (University of Berlin), *Director of Orchestra*

Library

James Tanis, TH.D. (University of Utrecht), *Director of Libraries*
Thomas Song, M.A.L.S. (University of Michigan), *Associate Director of Libraries*
John Dooley, M.L.S. (McGill University), *Head, Reclassification Project*
Dorothy V. McGeorge, B.S.L.S. (Drexel Institute), *Head, Acquisitions Department*
Catherine E. Pabst, M.S.L.S. (Drexel Institute), *Acquisitions Librarian*
Gertrude Reed, M.S.L.S. (Rutgers University), *Reference Librarian*
Pamela G. Reilly, M.S.L.S. (Drexel Institute), *Head, Public Services Department*
Dorothy M. Sugarbaker, M.S.L.S. (Drexel Institute), *Cataloguing Librarian*
Pauline A. Taffe, M.S.L.S. (Villanova University), *Cataloguing Librarian*
Yildiz van Hulsteyn, M.S.L.S. (Drexel Institute), *Head, Art-Archaeology and Music Libraries*
Jane Walker, B.S.L.S. (Simmons College), *Head, Cataloguing Department*
Ethel W. Whetstone, A.B.L.S. (University of North Carolina), *Head, Sciences and Social Sciences Libraries*

Administrative Officers

Jacqueline Ann Akins, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*
Carol Biba, A.B. (University of Wisconsin), *Director of Public Information*
John A. Briscoe, M.A. (Harvard University), *Assistant to the President*
Katrin Ristkok Burlin, M.A. (Cornell University), *Dean of the Class of 1974*
Christine Philpot Clark, A.B. (Bryn Mawr College), LL.B. (Yale University), *Consulting Dean*
Marcella H. Congdon, A.B. (University of North Carolina), *Director of the Office of Career Planning and Placement*
Lupe R. Gonzalez, *Financial Aid Officer*
Paul W. Klug, C.P.A., B.S. (Temple University), *Comptroller and Business Manager of the College*
Sandra I. Kohler, M.A. (Bryn Mawr College), *Dean of the Class of 1972*
Phyllis S. Lachs, PH.D. (Bryn Mawr College), *Assistant Dean of the Graduate School of Arts and Sciences*
Rebecca Fox Leach, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*
Dorothy Nepper Marshall, PH.D. (Bryn Mawr College, *Consultant for Development*
Edith H. McGrath, *Executive Assistant to the President*
Samuel J. McNamee, B.S. (Temple University), *Assistant Comptroller*
Julie E. Painter, A.B. (Bryn Mawr College), *Administrator of Records and Financial Aid*
Martha Stokes Price, A.B. (Bryn Mawr College), *Director of Resources Committee*
Patricia Onderdonk Pruett, PH.D. (Bryn Mawr College), *Associate Dean and Dean of the Class of 1973*
Jo-Anne E. Thomas, M.A.T. (Harvard University), *Assistant Dean for Student Affairs*
Thomas N. Trucks, B.S. (Villanova University), *Superintendent of Buildings and Grounds*
Sarah E. Wright, *Director of Halls*

Foreign Students

Phyllis Turnbull, *D. en F.L.* (University of Madrid), *Associate Professor of Spanish and Advisor to Foreign Students*

Health

Frieda W. Woodruff, M.D. (University of Pennsylvania), *College Physician*
Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*
John F. Howkins, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*
Howard B. Smith, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

Physical Education

Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*
Jan Eklund Fisher, M.ED. (University of Minnesota), *Instructor in Physical Education*
Pamela B. Kerr, B.S. (Skidmore College), *Instructor in Physical Education*
Mary L. O'Toole, B.S. (University of Massachusetts), *Instructor in Physical Education*
Janet A. Yeager, *Instructor in Physical Education*

Halls of Residence

Elizabeth DeMere, M.A. (Ecole Normale), *Warden of French House in Haffner Hall*
Alice Heinlein, A.B. (Douglass College), *Warden of Merion*
Sally Kashing, A.B. (University of California at Berkeley), *Senior Resident of the Graduate Center*
Rebecca Fox Leach, A.B. (Bryn Mawr College), *Warden of Erdman*
Martha Malo, *Licenciada* (University de Cuenca), *Warden of Spanish House in Haffner Hall*
Judith McFadden, A.B. (Indiana University), *Warden of Rhoads*
Patricia Lynn Moody, A.B. (Bryn Mawr College), *Warden of Pembroke West*
Charles Morscheck, Jr., A.B. (Michigan State University), *Warden of Radnor*
Alan M. Ratner, A.B. (State University of New York at Stony Brook), *Warden of Denbigh*
Lisa Tideman, M.A. (University of Chicago), *Warden of Rockefeller*
Donna O. Troutman, A.B. (San Francisco State University), *Warden of Pembroke East*

Assistants

Donna Amenta, A.B. (Wheaton College), *Assistant in Chemistry*
Christine Bekiesz, A.B. (University of Delaware), *Assistant in Education*
Anne Beuf, A.B. (Bryn Mawr College), *Assistant in Sociology*
Joy Ann Bilharz, M.A. (Bryn Mawr College), *Assistant in Anthropology*
Donald Duclow, M.A. (DePaul University), *Assistant in Philosophy*
Robert J. Ferguson, B.S. (Western Illinois University), *Assistant in Chemistry*
Denise M. Gervase, A.B. (Chestnut Hill College), *Assistant in Biology*
Judith Hedrick, A.B. (Adelphi Suffolk College), *Assistant in Education*
Myrl Hermann, M.A. (Bryn Mawr College), *Assistant in Music*
Ronald Jones, B.S. (Imperial College of Science and Technology), *Assistant in Physics*
Michael Karp, M.A. (Brandeis University), *Assistant in Archaeology*
Janet E. Kilbride, M.S. (Pennsylvania State University), *Assistant in Psychology*
Mary Jo Koroly, PH.D. (Bryn Mawr College), *Assistant in Biology*
Katherine Krause, A.B. (Wellesley College), *Assistant in Biology*
Barry N. Lurie, A.B. (Temple University), *Assistant in Chemistry*
Edyth L. Malin, M.S. (American University), *Assistant in Chemistry*
Judith Michaels, M.A. (Bryn Mawr College), *Assistant in English*
John C. Monahan, A.B. (LaSalle College), *Assistant in Psychology*
Patricia Mooney, A.B. (Wilson College), *Assistant in Physics*
Sharon Murnane, A.B. (University of South Dakota), *Assistant in Biology*
Thomas Palmeri, M.A. (Berchmans College), *Assistant in Philosophy*
Lynn Penn, M.A. (Bryn Mawr College), *Assistant in Chemistry*
Patricia Powell, A.B. (College of Idaho), *Assistant in Sociology*
Alan M. Ratner, A.B. (State University of New York at Stony Brook), *Assistant in Psychology*
Margaret C. Root, A.B. (Bryn Mawr College), *Assistant in Archaeology*
Gerald Satlow, M.A.T. (Wesleyan University), *Assistant in Mathematics*
Earl Shapiro, M.S. (Pennsylvania State University), *Assistant in Geology*
Mary Emma Wagner, M.A. (Bryn Mawr College), *Assistant in Geology*
Jerome Zurek, A.B. (Fordham University), *Assistant in English*

N.B. Assistants in general are on part-time appointment.

Child Study Institute

Janet L. Hoopes, PH.D. (Bryn Mawr College), *Director*
Jean Ager, A.B. (Western College for Women), *Part-time Psychologist*
Shirley Alrich, M.A. (Bryn Mawr College), *Counselor*
Eleanor Beatty, M.A. (George Washington University), *Psychologist*
Hannah Beiter, A.B. (State College of New Jersey), *Remedial Reading Teacher*
Gwendolyn A. Binegar, M.S.S. (Bryn Mawr College), *Caseworker*
Lelia Brodersen, M.A. (Temple University), *Chief Psychologist*
Marjorie Edwards, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Anne D. Emmons, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
Kathleen Finnegan, M.A. (Temple University), *Psychological Assistant*
Joel Goldstein, M.D. (Jefferson Medical School), *Consulting Psychiatrist*
Constance Grant, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
Anita Grinnell, M.S. (University of Pennsylvania), *Part-time Psychologist*
Virginia G. Keen, M.S.W. (University of Pennsylvania School of Social Work), *Social Caseworker*
Nina Korch, A.B. (University of Pennsylvania), *Part-time Counselor*
Frederic J. Kwapien, M.D. (Tufts University School of Medicine), *Consulting Psychiatrist*
Nancy Outley, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*
Christine Patzau, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*
Myra E. Pottash, M.A. (Bryn Mawr College), *Psychologist*
Beth M. Riser, M.A. (Bryn Mawr College), *Remedial Reading Teacher*
Beatrice Schneider, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Jean Slavin, M.A. (Columbia University Teachers' College), *Remedial Reading Teacher*
Herman Staples, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
Elsie Waelder, M.S.W. (Western Reserve University), *Chief Social Worker*
Isabel Westfried, M.A. (Bryn Mawr College), *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield, M.S. (Syracuse University), *Director*
Bonnie Perley Meshorer, M.S. (Florida State University), *Teacher*
Christine Bekiesz, A.B. (University of Delaware), *Assistant Teacher*
Judith Hedrick, A.B. (Adelphi Suffolk College), *Assistant Teacher*

Introduction

Bryn Mawr effectively combines a small undergraduate college with a graduate school. In both of these the study of the liberal arts and sciences is pursued with members of the faculty who normally teach on both levels. They find that the teaching of undergraduates and the direction of graduate student research complement each other, so that the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so narrow that it may not profit from a breadth of perception.

Bryn Mawr College is convinced that intellectual discipline and enrichment provide a sound foundation for living. It believes in the rights of the individual and thinks of the college community as a proving ground for the freedom of individuals to think and act as intelligent and responsible members of a democratic society.

In these beliefs Bryn Mawr has preserved the purpose and much of the tradition of its founders, a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

History of the College

This concern about the opportunity for women to study at the university level was felt strongly by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college with undergraduate instruction for the A.B. and graduate instruction for the M.A. and PH.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow

freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a physician and one of the trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. From 1942 to 1970 Katharine Elizabeth McBride presided over the College in a time of great change and tremendous growth. The fifth president, Harris Llewellyn Wofford, Jr., was elected in 1969.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 100 acres; new buildings have been added as required by additional students and by new undertakings in teaching and research.

The College as Community

Believing that a small college provides the most favorable opportunity for the students to participate in their own education, Bryn Mawr limits the number of undergraduates to approximately eight hundred. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each. Students may take courses at the other colleges, with credit and with-

out additional fees. All three colleges share in some facilities like the new computer center and in various curricular and extra-curricular activities, but geographical proximity makes possible more regular and closer cooperation between Bryn Mawr and Haverford, which are only a mile apart. The calendars for the year are coordinated so that vacations and examination periods coincide. Collections in the two libraries are cross-listed, and students may study in either library.

The cooperation between Bryn Mawr and Haverford naturally extends beyond the classroom. Various student organizations on the two campuses work closely together both in matters concerned with student government and in the whole range of activities. Cooperation in living arrangements, which was initiated in 1969-70, will be extended in 1970-71 so that several residence halls on the two campuses will be assigned to students of both colleges.

Bryn Mawr itself sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus not only for public lectures but also for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and by the Anna Howard Shaw Lecturers in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of social and cultural interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop has facilities for experimental theater work; the Arnecliffe Studio is for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity, and student representatives join with members of the faculty and administration in making and carrying out plans for the college community as a whole. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association

both legislates and mediates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many special interest clubs, open to all students; it serves as the liaison between students and College officers, faculty and alumnae. The Undergraduate Association has most recently been instrumental in perfecting a system of meal exchanges with Haverford, extending the shuttle bus service which the two colleges provide, and introducing college transportation between the two colleges and Swarthmore.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussions on religious subjects, to plan services for worship and to take responsibility for giving students an opportunity to pursue and extend their religious interests.

Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs offers possibilities for political action and political education, sponsoring speakers, organizing discussions and providing outlets for active participation in contemporary political issues. Alliance is an "umbrella organization" serving politically-oriented interest groups on campus. The Bryn Mawr League concerns itself with problems and projects of social welfare and various branches of social service to the community at large; tutoring and volunteer work with children and in hospitals are now the chief activities of the League.

The Arts Council, independently or with other groups (College Theater, Orchestra, Chorus, Little Theater) sponsors work and performances or exhibitions in the arts. Under the aegis of the Athletic Association, the Dance Club choreographs its own productions. The Athletic Association also provides opportunities for all kinds of activities, from the Outing Club to organized intramural and varsity contests. *The Bryn Mawr-Haverford News* published semi-weekly and *The Review* published semi-annually welcome the participation of students interested in reporting, editing and critical or creative writing.

One of the most active of student organizations is the Curriculum Committee which has worked out with the Faculty Curriculum Committee a system of self-scheduled examinations, currently in operation, and pass-fail grades for Freshman English as well as the possibility of receiving academic credit for "project" courses of a creative studio type or in social field work. Students participated in meetings of the Faculty Curriculum Committee for the first time in 1969-70 and will continue to work with the faculty on an overall curriculum review in 1970-71. Black students' organizations have also been active in arranging with members of the faculty and staff for visiting lecturers to teach new courses in the appropriate departments and will this year open a Black Cultural Center.

Through their interest and participation in these many aspects of the college community the students exemplify the concern of Bryn Mawr's founders for intellectual development in a context of social commitment.

Admission

Bryn Mawr College is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school advisor and several teachers for an estimate of her character, maturity and readiness for college.

The College admits only candidates for a degree.

Program of Secondary School Studies

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving good preparation for study at Bryn Mawr College would be as follows: English grammar, composition and literature throughout four years; at least three years of mathematics, with emphasis on basic algebraic, geometric and trigonometric concepts and deductive reasoning; four years of one modern or ancient language, or a good foundation in two languages; some work in History and at least one course in laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 or more credits recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider such applications provided students have maintained good records and continuity in the study of basic subjects.

Application for Admission

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 1 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of $15 must accompany each application and is not refundable.

Candidates will be notified of the Committee on Admissions' action on their application in late April of the senior year.

Entrance Tests

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates, and should be taken between March of the junior year and January of the senior year. The tests may be taken in either the junior or senior year, or divided between the two years. If possible, Achievement Tests should be taken in current subjects. Students should offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. No special preparation, other than work well done in a good school, is required for successful performance on these tests.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to *College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey 08540 or P. O. Box 1025, Berkeley, California 94701.*

Interviews

All candidates are expected to have an interview, before January 15, either at the College or with an alumna area representative. Appointments for interviews and campus tours should be made in advance by writing or telephoning the Office of Admissions (215 LA 5-1000). The Office of Admissions is open from nine to five on weekdays and, except during March, July and August, on Saturdays from nine to one.

A student who is unable to visit the College should write to the Director of Admissions for the name and address of an alumna representative in her area.

Early Decision Plan

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the end of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude Test in March or May of the junior year and three Achievement Tests (English and any two others) in March, May or July of the junior year.

2. After her school has reviewed the results of these tests together with her three-year high school record, she must file *by October 15,* a preliminary application, a statement obtained from the College that she is a candidate under the Early Decision Plan, and all other application forms.

3. She should arrange for the required interview at the College or with an alumna area representative. Names and addresses of the area representatives may be obtained from the Director of Admissions.

4. She will be notified by the College at the end of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission and to file an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

Advanced Placement

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree.[1] With

1. The grade of 5 is required in English and in History.
See also pages 44-45, sections II and III.

the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

The Advanced Placement Tests are given at College Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

Transfer Students

Each year a few students are admitted on transfer to the sophomore and junior classes. Successful transfer candidates have done excellent work at other colleges and universities and present outstanding high school records which compare favorably with those of entering Bryn Mawr freshmen. Transfer students who will have earned the Associate of Arts degree may apply for financial aid for the first year. Other students may not apply for financial aid from Bryn Mawr until they have completed a year's work at the College.

Transfer candidates should file applications as early as possible and no later than April 1 for entrance in September or no later than November 1 for the second semester of the year of entrance. Application forms and instructions may be requested from the Director of Admissions.

Transfer candidates will be asked to submit official test reports from the College Entrance Examination Board of the Scholastic Aptitude and Achievement Tests taken in high school. Those who have not previously taken these tests will be required to take only the Scholastic Aptitude Tests. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or from the West Coast office of the Board at Box 1025, Berkeley, California 94701.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree transfer students must have completed a minimum of two years of full-time study at the College. Students who have failed to meet the prescribed standards of academic work or who have been put on probation, suspended or excluded from other colleges and universities, will under no circumstances be admitted.

Candidates for transfer will be notified of the action taken on their applications by late May or for the second semester in December.

Foreign Students

Bryn Mawr welcomes applications from foreign students between the ages of 17 and 21 who have outstanding secondary school records and who meet university entrance requirements in their native countries.

Application forms and instructions are available from the Director of Admissions. No application fee is required. Foreign applications should be filed early in the year preceding entrance and must be complete by February 15.

Foreign applicants will be asked to take the Scholastic Aptitude Tests of the College Entrance Examination Board. Achievement Tests are recommended but not required. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the West Coast office of the Board at Box 1025, Berkeley, California 94701. Registration arrangements for students taking the tests abroad should be made at least two months prior to the scheduled testing date.

All foreign applicants whose native language is not English will be required to present credentials attesting to their proficiency in English. The Test of English as a Foreign Language (TOEFL) is recommended but not required for all non-native speakers of English unless they have a diploma from an institution in which English is the sole medium of instruction. TOEFL registration information can be obtained by writing the Educational Testing Service, Princeton, New Jersey 08540.

Withdrawal and Readmission

A student who has withdrawn from College is not automatically readmitted. After a year's absence, she may request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Evidence of the student's ability to resume work at Bryn Mawr may be requested in the form of records from another university or medical approval. Applications for readmission will be reviewed twice during the year, in late February and in June. Students who file an application by February 15 will be notified of the Committee's decision in early March. Those who file by June 10 will be notified late in June.

Leaves of Absence

A student whose status at the College is not in question may apply to her Dean for a leave of absence. A leave may be requested for one semester or two consecutive semesters, and once approved, reinstatement will be granted. The estimated residential space available at the time a student wishes to return to the College will be a factor in the consideration of requests for leaves. Application should be made by April 1 of the academic year preceding the requested leave (or August 15 for second semester leave). Applications made after this date will be considered only in exceptional circumstances. The deans and members of the student's major department will review any questions raised by the student or her Dean regarding the approval of the leave. In case of study at another institution, either foreign or domestic, the transfer of credits will be treated in the usual manner by the Committee on Transfer. A student should confirm her date of return, by letter to her Dean, by March 1 preceding return for the fall semester and by December 1 for return in the spring semester.

A student extending her leave beyond the approved period will have to apply for readmission.

Medical Leave of Absence

A student may, on the recommendation of the College Physician or her own doctor, at any time request a medical leave of absence for reasons of health. Re-entrance will be granted upon evidence of recovery.

Academic Facilities and Residence

Libraries

The new Mariam Coffin Canaday Library was officially opened in April, 1970. As the center of the College's library system, it offers expanded facilities for study and research. The collections for the humanities and social sciences are largely in the Canaday Library, except for Art and Archaeology in the M. Carey Thomas Library, Music in Goodhart Hall, Psychology in Dalton Hall and Social Work in the Graduate School of Social Work and Social Research. In addition, there are libraries for the Sciences and Mathematics in the Science Center.

Bryn Mawr's libraries operate on the open-stack system, allowing students free access to the collections, which comprise more than 350,000 volumes. A union catalogue for all the libraries of Bryn Mawr College is located in the Canaday Library, as are the basic reference and other service facilities of the system. Students are urged to familiarize themselves with the various aids provided for study and research. A new "Guide to the Bryn Mawr College Library" is available for handy reference, and the staff of librarians may be consulted for further assistance.

In addition to the books, periodicals and microfilms basic to a college library, the Canaday Library also has a small but distinguished collection of research materials among its rare books and manuscripts. The Marjorie Walter Goodhart Medieval Library, for example, provides the basic texts for probing the mind of the late Middle Ages and the thought of the emerging Renaissance. These treasures are supplemented by a growing collection of sixteenth-century texts. Another noteworthy resource is the Louise Bulkley Dillingham collection of Spanish-American books, which range from sixteenth-century exploration and settlement to contemporary Spanish-American life and culture.

The M. Carey Thomas Library still houses in the West Wing the books and other study materials of the Departments of Classical and Near Eastern Archaeology and History of Art. The study area in the stacks has been increased and the collections of slides and photographs have been made more accessible. Also in the West Wing is the Quita

Woodward Memorial Room for recreational reading, with recent books in literature, art, religion and current affairs as well as many classics. The rest of the M. Carey Thomas Library will continue to provide offices for the majority of faculty in the humanities and social sciences as well as informal meeting rooms and the great Reading Room.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Union Library Catalogue of Philadelphia, situated at the University of Pennsylvania, enables students to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Students wishing to use another library for material not available at Bryn Mawr must secure from the Director of Libraries a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Archaeology Collections

The Ella Riegel Museum of Classical Archaeology, housed on the third floor of the M. Carey Thomas Library, West Wing, contains a small study collection of Greek and Roman minor arts, especially vases, and a selection of pre-classical antiquities. The Museum was formed from private donations such as the Densmore Curtis collection presented by Clarissa Dryden, the Elisabeth Washburn King collection of classical Greek coins, and the Aline Abaecherli Boyce collection of Roman Republican silver coins. Professor Hetty Goldman has given the Ella Riegel Museum an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. The collections are used for small research projects by undergraduate and graduate students.

Anthropology Museum and Laboratory

The Anthropology Laboratory in Dalton Hall houses several large collections of New World artifacts, including the W. S. Vaux Collection of archaeological and ethnological materials. This important collection, made during the last half of the nineteenth century, has as its main emphasis the artistic works of New World Indians. The Anne and George Vaux Collection represents a wide selection of American

Indian basketry from the Southwest, California and the Pacific Northwest. The extensive Ward Canaday Collection contains outstanding examples of most of the ceramic and textile traditions known for Peru. Other comprehensive collections, given by faculty and friends of the College, represent the Old World Paleolithic and Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities. These collections are shortly to be enlarged by osteological materials and casts of fossil hominids. There is also a small but growing collection of ethnomusical recordings, representing the music of native peoples in all parts of the world. Students are expected to make use of these materials and laboratory facilities; there are limited display areas available for those interested in working on museum exhibits.

Laboratories

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building for Biology. South of Park Hall is the building for the physical sciences, which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the Science Center there is a machine shop with a staff of expert machinists to serve all the science departments, and several departments have smaller shops for the use of their own faculty and students. There are rooms specially equipped for work with radioactive materials and for photographic work.

The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service are 25,000 maps. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

Bryn Mawr, Haverford and Swarthmore Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 15,000,000 bytes of random access disk storage. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, IBM 2260 keyboard display terminals, and two small satellite computers, one with card input-output.

Language Laboratory

The Modern Language Departments jointly maintain a Language Laboratory in Pembroke East. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Halls of Residence

There are on campus nine halls of residence, which provide full living accommodations for from 50 to 135 students. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. Erdman Hall, first opened in 1965, was named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors. Expected to be ready for the fall of 1970 is the Clarissa Donnelley Haffner Hall, which brings together into a "European village" three houses for students of French, German and Spanish.

In the year 1969-70 an experiment in coeducational living was tried: Radnor Hall housed students from both Bryn Mawr and Haverford; other Bryn Mawr students occupied suites in a Haverford residence

hall. The success of the experiment and increased interest in these arrangements have resulted in an extension of coeducational living to Rhoads North and South at Bryn Mawr and to further units at Haverford.

College officers called wardens are in charge of the residence halls. They may be single women or married couples who are members of the Dean's staff but at the same time close to the undergraduates in age and engaged either in teaching or in studying for an advanced degree. They are interested in all aspects of each student's welfare and they work, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply rugs, curtains and any other accessories they may wish.

The maintenance of halls is the responsibility of the Director of Halls and a staff of managers. Food service is provided by a national food service organization. No special foods or diets can be obtained.

Rules for Residence

Residence in the college buildings is required of all undergraduates with two exceptions: those who live with their families in Philadelphia or the vicinity; and no more than twenty-five seniors who in 1969-70 for the first time were allowed to live in houses or apartments of their own choosing after having received permission to do so from both the College and their parents. Married students are not offered residence space.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume

the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the Spring vacation and here undergraduates may occupy rooms at $5.00 per day (including meals).

Non-Resident Students

For non-resident students, there is a suite of rooms in Erdman Hall containing study space, a kitchenette, dressing room and showers. College mail and campus notices will be sent there throughout the academic year. The warden of one of the halls of residence is available for advice and glad to help plan teas or any other special occasions which the students may be interested in arranging. When space permits, students may make arrangements to have meals in the halls.

Non-resident students are liable for all undergraduate fees except those for residence in a hall. A Dispensary fee of $25 entitles them to medical examination and consultation with the College Physician.

A non-resident student who wishes to enroll for the following year must make a deposit of $25 not later than June 1, which will be credited against the tuition charge. This fee will not be refunded in case of withdrawal.

Fees

Tuition

The tuition fee in 1970-71 for all undergraduate students, resident and non-resident, is $2150 a year.

The fee is payable in two installments. The first bill will be sent in July, 1970, and is payable no later than August 15, 1970. The second bill will be sent in December and is payable no later than January 15, 1971. Although the tuition fee is paid in two equal parts, no reduction or refund will be made in the total tuition fee on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate is over $4000 a year. The difference over and above tuition must be met from private gifts and income from endowment. Contributions from parents able and willing to pay an additional sum are most welcome to help meet the expenses of instruction.

Residence

The charge for residence is $1250 a year and will be billed twice a year with tuition, that is, in July and December.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge for the whole year, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

General Deposit

Beginning with the 1971-72 academic year, all students will be required to make a deposit of $100. This deposit will remain with the College while the student is enrolled as an undergraduate. The deposit will be returned upon graduation or withdrawal from College. However, any unpaid bills and any expenses incurred as a result of destruc-

tion or negligence on the part of the student will be applied against the deposit.

Present undergraduates will be billed for the general deposit in July, 1971. Students entering the Class of 1975 and all new students thereafter will be billed for the deposit upon acceptance of admission.

Summary of Fees and Expenses for 1970-71

Tuition $2150
Residence 1250
Minor Fees
Laboratory fee:
One course of 2 hours or less a week $ 7.50
One course of more than 2 hours a week 15.00
Two courses of more than 2 hours a week 25.00
Three courses of more than 2 hours a week 30.00
Health Insurance (Students' Reimbursement Plan) 27.80
Dispensary fee for non-resident students 25.00
Graduation fee (payable in the senior year) 25.00

Schedule of Payments

Tuition and residence fees will be billed in two equal installments and are due as follows:

For resident students
$1700 due not later than August 15
$1700 due not later than January 15
For non-resident students
$1075 due not later than August 15
$1075 due not later than January 15

No student will be permitted to attend classes or to enter residence until payment of the College charges has been made. No student will be graduated or receive a transcript until all accounts are paid.

Monthly Payment Plan

For parents who wish to pay college fees on a monthly basis, the College offers the Education Plan in cooperation with the Bryn Mawr Trust Company. To finance a single year's cost it is necessary to sign an agreement by July 15. Contracts include the benefit of parent life, total and permanent disability insurance. For information, write to the Business Manager of the College.

General Information

Student Advising

The deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College advises seniors, and each of the other classes has as its own advisor a member of the Dean's staff. In addition to their class deans, students may work with the Assistant Dean for Student Affairs, who helps to coordinate the calendar and undergraduate extracurricular activities, and with the Consulting Dean, whose first concern is the needs of the black students. A Scholarship Officer administers the financial aid program including loans as scholarship aids. The wardens of residence halls, who are members of the Dean's staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisors are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the Student Freshman Week Committee and the College provide a special period of orientation. Freshmen are asked to come into residence four days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. Freshmen with their parents may have interviews with the President. In addition, freshmen have individual appointments with the Deans to plan their academic program for the year. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

Academic Standards and Regulations

Faculty rules governing academic work and the conduct of courses are stated in a booklet, "Academic Rules for Undergraduates," given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality

to meet the academic standards set by the College. The Council of the Undergraduate College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Undergraduate Council may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Undergraduate Council may recommend withdrawal from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the Faculty and the Dean of the College or the appropriate class Dean.

Attendance at Classes

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept. Each instructor will make clear his view concerning absence from class.

Students should note that instructors are not notified of absences because of illness unless a student has missed three days of classes.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructors about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructors. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

Health

An extensive program, including periodic physical examinations and regular work if needed or desired during the first two years in the De-

partment of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 18-bed infirmary with a full staff of physicians and nurses. Additional medical and surgical facilities are available at the Bryn Mawr Hospital and in nearby Philadelphia.

Students receive out-patient care in the College Dispensary and in-patient care when necessary in the Infirmary. Medical and psychiatric consultations with the College staff are available without charge. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus, diphtheria and poliomyelitis, vaccination against smallpox, an intradermal tuberculin test and ophthalmologist's certificate are required. If the intradermal tuberculin test is reported positive a chest x-ray is necessary. Students who have failed to hand in these reports will not be permitted to register until they have the necessary examinations and immunizations on arrival, for which they will be charged accordingly.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the college physicians during this time and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is $15.

The Infirmary is open when College is in session. Expensive medicines and individual prescriptions will be charged at cost.

Non-resident students must pay a fee of $25, which entitles them to unlimited dispensary and laboratory service and free consultation with the college physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges. Admission to the Infirmary of non-resident students is at the rate of $15.00 per day.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Office of the Dean or to the College Physician. Any student who becomes ill when absent from College must notify the Office of the Dean immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Student's Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is $27.80 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

Insurance

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.

Curriculum

The present plan of study takes into account both the changes of recent years in secondary school education and the expectation of graduate school on the part of a larger proportion of students. It provides flexibility and makes it possible for students to include a wide range of fields of knowledge and to have great freedom to explore and elect. Some of the flexibility has been achieved by including all departments of the College in a divisional system, thus allowing both humanist and scientist a variety of ways in which to meet college requirements.

The Plan for the Curriculum

I. All candidates for the A.B. degree shall present 16 units[1] of work. In all cases one of these will be a unit of Senior Conference in the major subject.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

Group I	*Group II*	*Group III*[4]	*Group IV*
History	Biology	English Literature	History
Philosophy	Chemistry	Modern Literatures	Philosophy
Anthropology	Geology	Classical Literatures	Archaeology
Economics	Physics		History of Art
Education	Psychology 101		History of Religion
Political Science	Mathematics[3]		Music
Psychology[2]			
Sociology			

1. A unit of work is the equivalent of eight semester hours and is either a year course, or when appropriate, two one-semester courses.
2. Two semester courses chosen from the following: 205a/b, 206a, 306b, 307a, 308b.
3. Mathematics alone may not be used to fill any *group* requirement. See page 44, II, a & c; III, B, 2.
4. The following courses satisfy the requirement:
 English 102, 103 and all 200 courses under "Literature"
 French 201, 202, 203 and all 300 courses
 German 202 and all 300 courses
 Greek 101, 201, 203 and 301
 Italian 201, 202, 303 and 304
 Latin 101, 201, 202 and all 300 courses
 Russian 203 and all 300 courses
 Spanish 201, 203 and all 300 courses
 In special cases, Biblical Literature may satisfy the requirement.

The following directions and qualifications are to be noted:

a. A student (not majoring in subjects under Group II) may elect a second course under Group II as an alternative to any one of her other divisional requirements.

b. No course may satisfy more than one divisional requirement. Students majoring in History or Philosophy may count a course in their major as satisfying the requirement in *either* Group I or Group IV, but not both. Students majoring in Psychology may count a course in their major as satisfying *either* Group I or Group II, but not both.

c. Courses taken to satisfy the requirements in English and Mathematics described below do not count as fulfilling divisional requirements.

III. In addition to the divisional requirements, each student must:

A. Include in her program two semesters of English composition (English 015) unless by a score of 5 on the Advanced Placement Test she has shown evidence that she has attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or in one language and mathematics, the level to be demonstrated in one of the three following ways:

1. She may demonstrate a knowledge of two foreign languages by

a. passing an examination offered by the College every spring and fall, or

b. passing with a grade of at least 70 a College course above the elementary level (such courses must be completed before the senior year), or

c. attaining a score of at least 590 (in one language) on a College Board Achievement Test taken in January or May of the senior year of high school and/or by passing with an honor grade an Advanced Placement Test.

2. She may offer one language to be tested as described above and demonstrate proficiency in mathematics by

a. attaining a grade of 4 or 5 on the Advanced Placement Test, or

b. passing an examination offered by the Department of Mathematics each spring and fall, or

c. achieving a grade of at least 70 in Mathematics 101 or a more advanced course.

3. She may offer one language to an advanced level of proficiency to be demonstrated by passing with a grade of at least 70 one course or two semester courses at the 300 level.

IV. At the end of the sophomore year each student must choose a major subject, and in consultation with the departmental advisor plan an appropriate sequence of major and allied courses. Usually a major is made up of four courses, two courses of allied work and one unit of Senior Conference in the Major Subject. No student may be required to offer more than six courses in the Major Subject. Students invited to participate in the Honors program count the Honors project as one of the Major Subject units.

In brief outline, each student's program will include:

1. a unit of work in English, unless she is exempt
2. work to achieve the required level of proficiency in
 one language, or
 two languages, or
 one language and mathematics
3. four units of work, one from each of the divisions I-IV
4. a major subject sequence of at least four units of work and two units of allied work
5. elective units of work to complete an undergraduate program of at least 16 units.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper.

A student with unusual interest or preparation in several areas could consider a double major, a major with a strong minor, or a special program involving work in several departments built around one major as a core. Such programs can be arranged by consulting the Dean and members of the departments concerned.

Numerical grades on the scale of 100 are given in all courses counting for the degree except in English 015, Interdepartmental 220c and

Sociology 215. Each student must attain a grade of 70 or above in at least half of her numerically graded courses and a grade of at least 60 or "Pass" in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.

The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude, magna cum laude,* and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

Credit for work taken elsewhere is given as follows:

1. Transfer credits (see page 28)

2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and, in the case of required or major and allied work, by the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students at Bryn Mawr may register for courses at Haverford (1) in order to include in their programs work not offered at Bryn Mawr, (2) in order to solve problems of schedule conflicts when courses are offered at both colleges and (3) whenever major departments advise.

Students registered for courses at Haverford should note that Haverford courses begin on the half hour and therefore be certain that their schedules allow for transportation time.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so after their freshman year. Students who wish to present summer school work for credits should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below 70. Credit given will be calculated on an hour-for-hour basis.

Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

b. Physical Education

All students must meet the requirement in Physical Education. (See page 142)

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program will normally attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.

Premedical Preparation

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enters these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a and 203, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

Preparation to Teach

Students majoring in a liberal arts field which is taught in the secondary school may, by appropriate planning early in the undergraduate career, prepare themselves to teach in the public junior and senior high schools. A conference with the Department of Education is urged upon students who are considering the possibility of entering the teaching profession. Every state requires that candidates for teaching positions present a certificate issued by its state department of public instruction. Training and field experience leading to the certificate vary somewhat from state to state but the pattern is similar. Students who earn teaching credentials valid in Pennsylvania will usually be able to satisfy certification requirements in other states. For laboratory work in child study and early childhood education, see under the Department of Education.

Coordination in the Sciences

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Through the grant, the College is able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in areas of interest to more than one natural science department. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in this program and to advise them about their course of study. Such students should consult with the chairmen of the departments as early as possible.

Interdepartmental Courses

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses may be taught by two or more members of the faculty working in close cooperation. Since the material considered requires some back-

ground in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

Credit for Creative Work in the Arts

Although Bryn Mawr does not have a regular program of studio courses, serious students of Art, Music and the Dance may receive elective academic credit for work in these fields just as students of creative writing do. For details see under Fine Art, the Performing Arts and the Department of Music.

Language Houses

Haffner Hall, which is expected to open in the fall of 1970, comprises three separate units which will house qualified students of French, German and Spanish.

Sophomores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

Institut D'Études Françaises D'Avignon

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open to men and women students from other colleges. Certain of the courses carry graduate credit. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-

year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

Centro de Estudios Hispánicos en Madrid

Bryn Mawr also offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from other colleges. The instructors are members of college and university staffs familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A small number of scholarships is available each year. The *Centro* was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.

The Junior Year Abroad

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar and Smith Colleges or at *L'Académie;* in Geneva, Florence, Hamburg or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne State University. Students may apply for admission to other Junior Year Abroad programs which have the approval of their major department and the Curriculum Committee. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences.

All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

Intercollegiate Center for Classical Studies in Rome

The Center is maintained by a cooperating group of colleges and universities, of which Bryn Mawr is a member. Students majoring in Latin, Greek or Archaeology who meet the Center's entrance requirements may apply for admission for one or both semesters of the junior year. The Center's curriculum includes courses in Greek and Latin Literature, Ancient History and Archaeology, and provides for the study of Italian.

Guest Senior Year

A student, after consultation with her major department and her Dean, may apply for a guest senior year at another institution in the following circumstances: (a) if a program offered elsewhere will provide her with an opportunity of furthering her academic goals in a way not possible at Bryn Mawr (such cases to be submitted to the Curriculum Committee for approval); (b) for reasons of health or family emergency; (c) if she will be married and not remain in the Bryn Mawr area.

Scholarships and Other Student Aid

All students are, strictly speaking, on scholarship in the sense that their tuition fees cover only part of the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for approximately one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study 1970-71

Key to Course Numbers and Symbols

001-099
indicate elementary and intermediate courses.
With the exception of Greek 001 and Russian 001 these courses are not part of the major work.

100-199
indicate first-year courses in the major work.

200-299
indicate second-year courses in the major work.

300-398
indicate advanced courses in the major work; 399 may be used for the Senior Conference.

400-499
indicate special categories of work (e.g., 401 for Honors, 403 for supervised unit).

* . . . indicates elective courses, open to all students without prerequisite unless a special prerequisite is stated.

a . . . the letter "a," following a number, indicates a half-course given in the first semester.

b . . . the letter "b," following a number, indicates a half-course given in the second semester.

c . . . the letter "c," following a number, indicates a half-course given two hours a week throughout the year.

d . . . the letter "d," following a number, indicates a course of six-weeks' duration to be followed by an additional six weeks of independent supervised work.

[] . . . Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. One unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Haverford College courses are listed by number as they appear in the Haverford catalogue.

Anthropology

Professor: Frederica de Laguna, PH.D., *Chairman*
Associate Professor: Jane C. Goodale, PH.D.
Assistant Professor: Philip L. Kilbride, PH.D.
Visiting Lecturer: A. Irving Hallowell, PH.D.
Lecturer: Charles C. Kolb, M.A.
Assistant: Joy Ann Bilharz, M.A.

Professor of Music: Agi Jambor, M.A. (Ethnomusicology)
Assistant Professor of German: Nancy C. Dorian, PH.D. (Linguistics)

The aim of the major is to introduce the student to an understanding of man and his works: human evolution, the origin and development of culture, the basic cultural patterns and social institutions in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

Requirements in the Major Subject: 101, 203a, 204 or 208, 320a and two additional half-units of advanced (300) work, plus 399a & b (Senior Conferences). Two additional units of major or allied work are required, which may be taken at Bryn Mawr or Haverford.

Allied Subjects: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History of Art, History of Religion, Linguistics, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society:* Members of the Department.
Man's place in nature and the development of his capacity for culture; the history of human culture to the rise of the early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples.

[102a.* *African Heritage:* Mr. Kilbride.]

203a. *Primitive Society:* Miss Goodale.
Analysis of forms of social organization and introduction to theory and concepts of Cultural and Social Anthropology; Ethnographic methods; study of significant contributions to ethnography. Prerequisite: Anthropology 101b.

204. *American Archaeology:* Mr. Kolb.
The prehistory of North, Central and South America. Introduction to archaeological methods and theory and interpretation of archaeological materials. Laboratory work is included. Prerequisite: Anthropology 101, or permission of instructor.

205a.* *Ethnomusicology:* Mme. Jambor.
The history and development of folk music; a comparative study. The materials studied will be taken from the cultures of Africa, the American Indians and others.

205b. *Techniques of Ethnomusicology:* Mme. Jambor.
The transcription and analysis of folk music with an emphasis on the music of non-Western peoples. The history and development of musical instruments. Prerequisite: Anthropology 205a.

[208. *Old World Prehistory and Human Evolution:* Mr. Kolb.] 1971-72.
Prerequisite: Anthropology 101, or permission of instructor.

302b. *Africa: Sub-Saharan Ethnology:* Mr. Kilbride.
A study of selected Sub-Saharan African societies and cultures, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.

303b. *Oceania: Peoples of the Pacific Islands:* Miss Goodale.
A study of selected cultures and societies of the Pacific, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.

[304b. *The American Indian:* Miss de Laguna.] 1971-72.
A comparative study of North American Indian cultures and societies, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.

[305a. *Latin America: Native Cultures of Central America:* Mr. Kilbride.]
A study of selected cultures and societies of Latin America illustrating problems in Ethnography. Prerequisite: Anthropology 203a.

306a. *Peasants:* Mr. Kilbride.
A comparative analysis of Peasant culture, society and personality. Illustrative studies will be drawn from both the Eastern and Western Hemispheres. Prerequisite: Anthropology 203a.

320a. *History of Anthropology and Cultural Theory:* Miss de Laguna.
The development of Anthropology as a discipline and an examina-

tion of the important classical and modern contributions to cultural theory. Prerequisite: a half-unit of advanced (300) work.

321b. *Culture and Personality:* Miss de Laguna.

Approaches to an understanding of culture through study of cultural factors in the development of human personalities, and individual experiences in different socio-cultural settings. Prerequisite: a half-unit of advanced (300) work.

See also:

Interdepartmental 308. *Introduction to Linguistics:* Miss Dorian.

[Interdepartmental 310. *Introduction to Linguistic Techniques:* Miss Dorian.]

[Interdepartmental 312b. *Field Methods in Linguistics:* Miss Dorian.]

399a. *Senior Conferences:*

& b. Two half-unit seminars for seniors will be offered, one in the fall semester and one in the spring semester. The topic of each seminar will be discussed with participating students in the semester preceding that in which the seminar is to be held. Individual readings, research, oral reports and discussion will be stressed. Paper(s) and an examination, together with the quality of a student's participation in the seminar, will form the basis for evaluation.

An equivalent half-unit of senior conference in an allied field may be substituted for one of these seminars with the permission of the departments concerned.

399a. Miss Goodale (in 1971-72: Mr. Kilbride).

399b. Mr. Kolb (in 1971-72: Miss de Laguna).

401a. *Independent Work*

& b. Independent work is offered to seniors of marked ability for one or two semesters. If undertaken successfully, it may be credited as Honors work.

Biology

Professors: Robert L. Conner, PH.D., *Chairman*
Jane M. Oppenheimer, PH.D.
Assistant Professors: Anthony R. Kaney, PH.D.
David J. Prescott, PH.D.
Allen C. Rogerson, PH.D.
Lecturers: Jane R. McConnell, PH.D.
Joseph A. Orkwiszewski, M.S.
Patricia O. Pruett, PH.D., *Associate Dean*
Assistants: Denise M. Gervase, A.B.
Sharon Murnane, A.B.

Assistant Professor of Chemistry: J. Maitland Young, M.S., M.PHIL.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in understanding the biotic world in which man lives and his own position in it. Primary consideration is devoted, both in class and in the laboratory, to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to dynamic interrelationships of living organisms with each other and with their environment. Cell biology and cell physiology are particularly emphasized as unifying disciplines.

Requirements in the Major Subject: Biology 101 (unless exempted by the Department), 201a & b, 301a & b, and at least one other unit (two half courses) of advanced work and the Senior Conference, as well as the allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as additional allied courses and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French or German is essential for those expecting to do graduate work and is of value to students planning to attend medical school.

Allied Subjects: Chemistry, Physics, History of Science.

101. *General Biology:* Mr. Kaney, Mr. Rogerson, Miss Oppenheimer, Mr. Orkwiszewski. Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of cellular and organismic biology. A wide selection of plants and animals is studied to illustrate problems and theories dealing with living systems and their interaction with the environment. Lectures three hours, laboratory three hours a week.

201a. *Developmental Biology:* Miss Oppenheimer.

Class lectures and discussions take up the fundamental problems of animal embryology, with emphasis on experimental and biochemical analyses of development. While the class work covers aspects of both vertebrate and invertebrate development, the laboratory work is devoted mainly to the development of frog and chick, using living material when possible. Mammalian development, which is described in class, is studied in the laboratory by demonstration. Lecture three hours, laboratory four hours a week. Prerequisite: Biology 101 or permission of the Department.

201b. *Genetics:* Mr. Kaney.

A study of the fundamentals of heredity, cytogenetics, gene action and the genetic code. Lectures three hours, laboratory four hours a week. Prerequisite: Biology 101 or permission of the Department.

301a. *Cellular Physiology:* Mr. Orkwiszewski.

A course devoted to a study of the activities of cells in terms of physical and chemical processes. The relationship of structure to function at the molecular, organellar and cellular levels is stressed. Lectures three hours, laboratory four hours a week. Prerequisites: Biology 101, 201a & b, Chemistry 101 and 202. Chemistry 202 may be taken concurrently.

301b. *Cellular and Molecular Biology:* Mr. Rogerson.

A study of cellular processes including the cell cycle and the regulation of protein and nucleic acid synthesis. Lectures three hours, laboratory four hours a week. Prerequisite: Biology 301a.

351a. *Problems in Genetics:* Mr. Kaney.

A seminar course dealing with a few of the recent advances in genetic theory. These topics will be covered in an in-depth analysis of the literature. Class meeting two hours a week. No laboratory. Prerequisite: Biology 201b, 301b.

352a. *Problems in Molecular Biology:* Mr. Rogerson.

A seminar course dealing with a limited number of current topics of interest in the fields of cellular and molecular biology. This course will analyze modern theory and experimental techniques using current literature as source material. Class meeting two hours a week. No laboratory. Prerequisite: Biology 301b.

353. *Biochemistry:* Mr. Conner, Mr. Prescott, Mr. Young.

(INT.) The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. The first semester deals primarily with DNA, RNA and protein structure and function, biological catalysis and enzyme kinetics. The second semester stresses intermediary metabolism and biochemical regulatory mechanisms. Lectures three hours, laboratory six hours a week. Prerequisites: Chemistry 202, Biology 301b; one or both of these prerequisites may be waived by permission of the Department. Physics 101 and Mathematics 101 are recommended.

354b. *Bacteriology and Immunology:* Mr. Orkwiszewski.

An introduction to bacterial physiology and a consideration of immune responses to infectious disease. Lectures three hours, no laboratory. Prerequisites: Biology 301b, Chemistry 202.

355b. *Analysis of Development:* Miss Oppenheimer.

A seminar course which takes up two principal topics during the semester, chosen by the students enrolled. The topics are of contemporary interest; a large part of the class time is devoted to discussion rather than formal presentation, and the reading is exclusively in periodicals or recent symposium volumes. Class meeting two hours a week. No laboratory. Prerequisites: Biology 201a & b or their equivalent and Biology 301b (the latter may be taken concurrently).

[356. *Biophysics:* Miss Hoyt.]

The application of the methods of physics, both theoretical and experimental, to the study of some aspects of living systems. Lectures three hours. No laboratory. Prerequisites: Biology 301b, Chemistry 202, Physics 101, Mathematics 101 (except by special permission of the instructor).

Note: A graduate course on the *Use of the Computer in the Analysis of Biological Problems* will be given in Semester II by Mrs. Pruett. This

course will be open to qualified undergraduates with the permission of the Dean of the Graduate School.

Senior Conferences: All seniors meet at biweekly intervals throughout the year to discuss assigned reading in prescribed areas of Biology. These seminars are intended to relate materials from various subdisciplines of Biology to each other, to examine subjects of current biological interest, and to relate the field to the larger aspects of society. The method of evaluating the work will be determined in consultation between the seniors and the Department.

Honors Work: All qualified students are encouraged to do Honors work in one of the advanced fields. This entails one unit of laboratory work on an independent experimental research problem.

Chemistry

Professors: Ernst Berliner, PH.D., *Chairman*
Frank B. Mallory, PH.D.[1]
George L. Zimmerman, PH.D.

Associate Professors: Jay Martin Anderson, PH.D.
Joseph Varimbi, PH.D.

Assistant Professor: J. Maitland Young, M.S., M.PHIL.

Lecturer: Frances Bondhus Berliner, PH.D.

Assistants: Robert J. Ferguson, B.S.
Barry N. Lurie, A.B.
Edyth L. Malin, M.A.
Lynn Penn, M.A.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with

1. On leave, 1970-71.

modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

Requirements in the Major Subject: Chemistry 101, the three 200 courses, one unit of advanced work and the Senior Conference. Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

Allied Subjects: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry:* Mr. Anderson, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the nonmetals. Introductory quantitative techniques. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

101b. *General Chemistry:* Mr. Berliner, Mrs. Berliner and assistants.

Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three hours laboratory a week.

201. *Inorganic Chemistry:* Mr. Varimbi.

Correlations of chemical and physical properties based on the Periodic Table; Structures of inorganic compounds; Equilibria in acid-base and complex-ion systems. Laboratory work includes analytical techniques, synthesis, purification, and characterization of a variety of compounds by chemical and instrumental methods. Three lectures, five hours laboratory a week.

202. *Organic Chemistry:* Mr. Berliner, Mrs. Berliner.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry:* Mr. Anderson.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

[220c. (INT.) *Introduction to Automatic Computation:* Mr. Snyder and members of several departments.]

See Interdepartmental Course 220c, page 139.

301b. *Advanced Inorganic Chemistry:* Mr. Varimbi.
Two lectures a week.

302a. *Advanced Organic Chemistry:* Mrs. Berliner, Mr. Berliner.
& b. Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week.

303a. *Advanced Physical Chemistry:* Mr. Zimmerman.
& b. Two lectures and one conference, five hours laboratory a week. Prerequisites: Chemistry 203, Mathematics 201 or its equivalent.

353. *Biochemistry:* Mr. Conner, Mr. Prescott, Mr. Young.
(INT.) (See Biology 353.)

[356b. *Biochemical Mechanisms:* Mr. Dunathan (at Haverford).]
Given in second semester. Prerequisite: Chemistry 202.

Senior Conference: Students survey the recent chemical literature and prepare written reviews on specific topics chosen in accordance with their own interests. These reviews are also made the subjects of oral presentations at seminar meetings held throughout the year, and attended by both seniors and faculty.

Honors Work: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink, PH.D., *Chairman*
Brunilde S. Ridgway, PH.D.

Associate Professor: Kyle M. Phillips, Jr., PH.D.

Lecturer: Carl Nylander, PH.D.

Assistant: Margaret C. Root, A.B.

The major courses provide an extensive survey of the ancient Mediter-

ranean and Near Eastern civilizations, with emphasis on Greek art and archaeology.

Requirements in the Major Subject: Archaeology 101, 201b, 203, 205b, 301 and the Senior Conferences.

Allied Subjects: Ancient History, Anthropology, Greek, History of Art, Latin, Akkadian.

101. *An Introduction to Ancient Art:* Mr. Nylander.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage, its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

201b. *Egyptian and Mesopotamian Archaeology:* Miss Mellink.

[202a.* *Cultural History of Archaeology:* Miss Mellink.]

202b. *Ancient Greek Cities and Sanctuaries:* Mrs. Ridgway.

203a. *Greek Sculpture:* Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

203b. *Roman Sculpture:* Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

[205b. *Aegean Archaeology:* Miss Mellink.]

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

301a. *Greek Vase-Painting:* Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture:* Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[303. *Anatolian and Syrian Archaeology:* Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

304a. *Ancient Monumental Painting:* Mr. Phillips.

The arts of wall-painting and mosaics in Greece and Italy.

[305. *Akkadian.*]

Senior Conferences: Weekly two-hour seminars for which readings are assigned and reports are prepared. Semester Ia: Hellenistic archaeology (Mrs. Ridgway); Ib: Iranian archaeology (Mr. Nylander); Semester IIa: Etruscan archaeology (Mr. Phillips); IIb: Near Eastern archaeology (Miss Mellink). Seniors with double majors can combine two subjects from this series with senior conferences in their other department.

Honors Work: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

Excavations: The Department has two excavation projects. The excavation of Karatash-Semayük in Lycia (Turkey) is conducted as a field seminar in the fall, with full credit for graduate students and seniors by invitation. The second project, the excavation of an Etruscan archaic site at Murlo near Siena, takes place during the summer on a non-credit basis for graduate and undergraduate students of archaeology.

Economics

Professor: Joshua C. Hubbard, PH.D., *Chairman*
Associate Professor: Richard B. Du Boff, PH.D.
Visiting Lecturer: Susan Wachter, M.A.

At Haverford

President: John R. Coleman, PH.D.
Professor: Holland Hunter, PH.D.
Assistant Professor: Samuel Gubins, PH.D.
Lecturer: Helen Manning Hunter, PH.D.

The major in Economics consists of courses given at Bryn Mawr and at Haverford Colleges. It is designed (1) to provide students with an understanding of economic processes and institutions and the interactions among the economy, politics and social structure; (2) to train them in the methods used to analyze those processes and institutions, and (3) to enable them to make policy judgments.

Requirements in the Major Subject: Economics 101a or 101b, and three units of intermediate and advanced work (including at least one unit of 300 level courses) and the Senior Conference. The 101 course is designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education. The group of intermediate courses offers a fuller range of material on major topics in the discipline, and is designed to meet a wide variety of student interests. The group of advanced courses supplies a theoretical and methodological foundation for those planning to make use of economics in their professional careers. All students, especially those who intend to seek an advanced degree in Economics, are strongly urged to take Mathematics 101, which will count as part of their allied work.

Prospective majors in Economics are advised to take Economics 101a or 101b in the freshman year.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

101a. *Introduction to Economics:* Members of the Department.

Study of the principles underlying the determination of the level of national income and employment with minimum instability; also, the determination of individual prices and incomes and the issues that arise in international economic affairs. This course will be repeated in the second semester as 101b.

201a. *Economic History and Development:* Mr. Du Boff.

Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; basic causes of economic growth and underdevelopment; the role of the state. Quantitative findings provide the points of departure. Prerequisite: Economics 101a or 101b.

202a. *Latin American Development:* Mrs. Wachter.

This course analyzes the problem of the economic underdevelopment of Latin America. Several general growth theories are considered with the purpose of elucidating the historical development of growth and stagnation in Latin America. The areas of foreign trade and investment, agriculture and industry are studied in some detail, both in order to understand how their current characteristics contribute to the relative backwardness of Latin America and in order to formulate policies to overcome this backwardness. Finally, the interdependence of political and social change and economic growth is analyzed in several case studies of Latin American economies.

204b. *The Modern Corporation:* Mr. Coleman (Haverford).

205b.* *Private Enterprise and Public Policy:* Mrs. Wachter.

A theoretical and empirical analysis of the behavior of business firms and the structure of industrial markets in the U. S. economy; evaluation of the performance of these markets; social and political implications of public regulation of private enterprises. Prerequisite: Economics 101a or 101b. Offered in 1970-71 and alternate years.

[206b. *International Economic Theory and Policy.*]

Current problems in international trade. The theory of trade. The balance of payments and the theory of disturbances and adjustment in the international economy. Economic integration. The impact of growth

in rich and poor countries on the development of the world economy. Prerequisite: Economics 101a or 101b. Offered in alternate years.

207a. *Money and Banking:* Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisite: Economics 101a or 101b.

208b. *Public Finance and Fiscal Policy:* Mr. Hubbard.

A study of taxation and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full-employment economy. Prerequisite: Economics 101a or 101b.

209a. *Economics of Urban Poverty:* Mr. Gubins (Haverford).

Study of economic aspects of urban poverty problems, investment in human resources, financing of urban services, relations between income and earnings; theoretical and empirical analysis of benefits and costs of poverty programs. Prerequisite: Economics 101a or 101b.

210a. *The Soviet System:* Mr. Hunter (Haverford).

(INT.) An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisite: two semester courses in Economics, Political Science or History. Offered in alternate years.

[211a. *Seminar on Research in International Trade:* Members of the Department. (Haverford).]

Student research will involve constructing measures of recent developments between trading nations, testing hypotheses using existing data and current statistical techniques, or attempting extensions of international trade theory. Weekly seminars. Prerequisite: Economics 206b or permission of the instructor.

[212b. *Political Economy:* Mr. Du Boff.]

An analysis of contemporary capitalism as a socio-economic system. Free market, Keynesian, Marxist and socialist theories are appraised. Readings may include Marx, Baran, Sweezy, Galbraith, Friedman and others. Prerequisite: Economics 101a or 101b.

[214b. *Economics of Minorities:* Members of the Department. (Haverford).]

An examination of economic and social indicators relating to national and local conditions. Specific studies of labor and housing markets in the Black, Appalachian and American Indian communities. Theories of racial discrimination and poverty. Prerequisite: Economics 101a or 101b.

216b. *Western European Economic Development:* Mr. Du Boff.

Selected topics in the economic history of Britain, France, Germany and Italy since 1760 are examined, both theoretically and empirically. Representative topics will include economic growth, the "industrial revolution" and technological change, demographic trends, international trade and finance, the impact of the world wars, and the effects of national economic policies. Prerequisite: Economics 101a or 101b.

218b. *Seminar in Labor Resources:* Mr. Coleman.

300b. *Research Seminar on Human Resources, Poverty and Urban Economics:* Mr. Gubins (Haverford).

Students will engage in independent empirical research on selected manpower development, poverty, and urban problems of the Philadelphia region. Weekly seminars will be concerned with problems arising out of research, particularly methodology and conceptual issues. Prerequisite: Economics 209a or permission of the instructor.

301a. *Statistical Methods in Economics:* Mrs. Hunter (Haverford).

An introduction to the concepts and procedures that underlie quantitative analysis of economic and other social data. Frequency distributions, probability and sampling, time series, index numbers, regression analysis, computer programming. Prerequisite: Economics 101a or 101b.

302b. *Introduction to Econometrics:* Mrs. Hunter (Haverford).

Quantitative methods for economic analysis and forecasting. Students may choose to emphasize either theoretical or empirical work. Each student will do a project using multiple regression. Prerequisite: Economics 301a or permission of instructor.

303a. *Macroeconomic Analysis:* Mr. Gubins (Haverford).

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a or 101b.

304b. *Microeconomic Analysis:* Mr. Gubins (Haverford).

Systematic investigation of analytic relationships underlying consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a or 101b.

305b. *Development Analysis:* Mr Hunter (Haverford).

Theoretical treatment of the structural changes associated with the process of economic development, especially in poor countries, and rigorous analysis of criteria for policy judgments in development programming. Introduction to input-output and linear programming methods. Prerequisite: Economics 101a or 101b.

307b. *Research Seminar on Communist Development:* Mr. Hunter.

Prerequisite: Economics 210a or permission of the instructor.

Senior Conference: In semester I there will be a weekly seminar on economic theory with an examination at the end of the semester. In semester II there will be periodic meetings to discuss an area of economic policy to be chosen by the seniors and the department. In connection with this work the student will have the option of writing a paper or taking an examination.

Honors Work: One unit of Honors work may be taken by students recommended by the Department.

Education

Professors: Rachel Dunaway Cox, PH.D., *Chairman*
Janet L. Hoopes, PH.D., *Director, Child Study Institute*

Associate Professor: Ethel W. Maw, PH.D.

Associate Professor and Director, Thorne School:
Susan E. Maxfield, M.S.

Assistant Professors: Emmy A. Pepitone, PH.D.
Faye P. Soffen, PH.D.

Instructor: Beth M. Riser, M.A.

Assistant: Lelia Brodersen, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a mental health service supported by the College, by the Lower Merion Township Schools and by funds granted under the comprehensive Mental Health-Mental Retardation plan of the Commonwealth of Pennsylvania. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools and at the Institute.

[101b. *The Social Foundations of Education:* Mrs. Pepitone.]

Examination of educational institutions, their objectives, organiza-

tion, interrelationships within segments of the school and with segments of society in the light of relevant theories from sociology, social psychology and child development.

102b. *History and Philosophy of Education:* Mrs. Pepitone.

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

[201a. *Educational Psychology:* Mrs. Maw.]

Psychology and measurement related to educational objectives particularly from the point of view of what is currently known about human social, affective, cognitive and learning behavior. Laboratory work is required.

206a. *Child Psychology:* Mrs. Cox.

The development of the child from infancy to late adolescence. Physical, intellectual and emotional growth and learning in the family and the school. Three hours lecture a week. Students do laboratory work in centers serving young children. Cooperating centers include the Thorne School, agencies serving neglected children and nursery schools for disadvantaged children. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School:* Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School:* Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours student-teaching in the elementary school.

[*Students electing Education 301a or 302a should note that student-teaching requires returning to the Bryn Mawr area early in September. Registered students may come into residence on the last day of Freshman Week but must make plans for earlier living arrangements.*]

**Certificate to Teach*

Requirements for the state certificate to teach in the public secondary

school can be met by the appropriate selection of courses in this Department and in the major field or fields. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes Psychology 101 followed by the Social Foundations of Education, Educational and Child Psychology. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised student teaching in the public school.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

Selected Graduate Seminars: For certain undergraduates who have taken Child Psychology or Educational Psychology the following graduate seminars are open upon the consent of the instructor with the permission of the Dean of the Graduate School.

Issues in Child Development: Mrs. Cox.

Adolescent Development: Mrs. Cox.

Psychology of Exceptional Children: Mrs. Riser.

Diagnosis and Remediation of Learning Deficit: Mrs. Riser.

English

Professors: Robert B. Burlin, PH.D., *Chairman*
K. Laurence Stapleton, A.B.
Associate Professors: Robert H. Butman, M.A.
Thomas H. Jackson, PH.D.
Joseph E. Kramer, PH.D.
Assistant Professors: Roger W. Cummins, PH.D.
Gwenn Davis, PH.D.
June Q. Koch, PH.D.
Clifford Earl Ramsey, PH.D.[1]
Lecturers: Sandra M. Berwind, PH.D.
Sandra I. Kohler, M.A.
Adrienne Lockhart, M.A.
Irma S. Lustig, PH.D.
Instructors: Anthony J. Litwinko, M.A.
Ramona T. Livingston, A.B.

The Department offers an opportunity to explore all periods of English literature. Through comprehensive reading as well as concentrated study of the literature, the major in English seeks to develop a historical perspective, critical and writing abilities, and an understanding of the imaginative process.

Requirements in the Major Subject:

Prerequisite: One unit at the first-year (100) level or its equivalent.
Four second-year or advanced units in English literature and the Senior Conference.

At least one full unit must be at an advanced (300) level.

At least one-half unit must be in the literature of the Middle Ages (201, 209, 300, 301).

One unit of work at Haverford College may be offered for major credit.

Allied Subjects: Majors are urged to build a strong ally in classical or modern literature, History, Philosophy, or History of Art. Other courses in Music, History of Religion, Political Science, Sociology and Linguis-

1. On leave, 1970-71.

tics may also be counted. A second-year writing course may be substituted for one unit of allied work.

Students contemplating graduate work in English are reminded that most graduate schools require a reading knowledge of French and German, and frequently Latin as well, for the Ph.D.

015. *English Composition and Reading:* Mrs. Berwind, Mr. Cummins, Miss Davis, Mrs. Koch, Mrs. Kohler, Mr. Litwinko, Mrs. Livingston, Mrs. Lockhart, Mrs. Lustig.

Practice in writing based upon the study of selected authors, with emphasis upon critical analysis. There will be weekly papers, two class meetings a week, and regular conferences. The student will select one of the following offerings:

a. Readings in Twentieth Century Literature.

b. Time and Fate (sixteenth to twentieth century selections).

c. Tragic Themes and Forms (chiefly nineteenth and twentieth century selections).

d. The Twentieth Century in Tension (chiefly twentieth century selections, but using works from other periods for contrast and parallels).

e. Modes and Traditions in English Literature. In this section there will be three class meetings a week as well as more reading. This section of the course may be substituted for the prerequisite to the English major.

Writing Courses

In the following courses weekly papers are required. Students who cannot meet these requirements should not elect any of these courses.

291a.* *Experimental Writing:* Mr. Litwinko.
& b. Each student will attempt to develop an effective, personally satisfying style and form. Intensive reading and exercises will be required. Prerequisite: English 015.

[292a.* *Fiction Writing.*]
& b. Attention is paid to the needs and interests of the individual student. Some required reading.

[293.* *Advanced Writing.*]
Practice in various forms of writing with the emphasis on technical problems. Prerequisite: Any other writing course.

[295a.* *Verse Composition:* Miss Stapleton.]
& b. Original verse composition, with a study of the principles of form.

298a.* *Playwriting and Production:* Mr. Butman.
Writing of two original one-act plays.

298b.* *Advanced Playwriting and Production:* Mr. Butman.
Writing of a full-length play and preparation of its production-book. Prerequisite: Approval of the instructor.

Literature

102a. *Readings in English Literature:* Mrs. Berwind, Miss Davis.
& b. The first semester will be devoted to a study of Comedy and Tragedy in the novel and in drama. The second semester will be organized according to genre, and will concentrate on epic, satire and lyric.

103a. *Major Figures in English Literature:* Mrs. Kohler.
& b. The critical study, in chronological sequence, of major works by a selected group of authors, including Chaucer, Spenser, Shakespeare, Milton, Pope and Wordsworth. In addition to the close reading of individual works, attention will be given to the growth of literary tradition.

201a. *Chaucer and His Contemporaries:* Mr. Burlin, Mrs. Lockhart.
& b. The first term will be devoted to a close reading of the *Canterbury Tales.* The second term will concentrate upon Chaucer's early poems and the *Troilus,* with supplementary readings from the Middle English period.

209b. *Medieval Narrative: From Beowulf to Malory:* Mr. Burlin.
A study of the heroic traditions in medieval epic and romance. Continental and Old English works will be read in translation. Familiarity with the classical epic will be expected.

[211b. *Sixteenth Century Poetry:* Miss Davis.]
The course will study the poetry of the sixteenth century from Wyatt and Surrey to Ben Jonson and the early works of John Donne. It will include the non-dramatic works of Marlowe and Shakespeare, and special attention will be given to the sonnet sequence.

[215a. *Spenser:* Mrs. Kohler.]
The works of Edmund Spenser, with emphasis to be placed on a close reading of *The Faerie Queene.*

217a. *English Prose of the Sixteenth Century:* Miss Davis.
Major emphasis will be placed on satire and the prose romances.

225a. *Shakespeare:* Mr. Kramer.
& b. (a) From *Titus Andronicus* to *Hamlet* (ca. 1589-1600). The non-dramatic poetry of Shakespeare will be read with specific reference to illuminating the dramas.
(b) From *Troilus and Cressida* to *Henry VIII.*

228a. *Modern Drama:* Mr. Kramer.
Selected plays from the Irish renaissance to the present will be read. Emphasis on theatrical contexts and dramaturgical techniques will complement purely literary considerations. Authors will include: Synge, Shaw, O'Casey, Wilder, Miller, Eliot, Pinter, Albee, LeRoi Jones.

[240a. *Restoration and Eighteenth Century Literature:* Mr. Ramsey.]
& b. (a) Restoration drama; Dryden; Swift; the early Pope.
(b) The later Pope; Johnson and his circle; the novel.

251b. *The Romantic Poets: First Generation:* Mrs. Koch.
A close reading of Blake, Wordsworth and Coleridge. Political and cultural thought will be studied in conjunction with the poetry.

257a. *Nineteenth Century English Novel:* Mrs. Lockhart.
& b. Emphasis will be placed on the conceptions and development of literary forms. Some acquaintance with earlier and later fiction is desirable.

260a. *American Literature:* Mr. Cummins.
& b. The development of American literature from the colonial period to the present, with intensive study of major authors and prominent themes. Some attention will be given to American intellectual history.

[263a. *American Writers of the Nineteenth Century:* Mr. Cummins.]
Major attention to works by Emerson, Thoreau, Whitman, Hawthorne, Melville, Emily Dickinson, Howells and Mark Twain.

[266a. *Modern American Fiction: Henry James to the Present.*]
& b. Major works of fiction by representative American writers. Some attention will be given to American intellectual history.

270a. *Major Forces in Twentieth Century Literature:* Mr. Jackson.
& b. Twentieth-century literature in its relationship to earlier literary and intellectual traditions, principal themes, and technical achievements,

seen through extensive study of selected major twentieth-century writers.

285b. *The Art of Biography:* Mrs. Lustig.
The critical analysis of theories, modes and problems of biographical literature, from Plutarch to the present. Independent reading list and reports, as well as the common study of such major and representative writers as St. Augustine, Sir Izaak Walton, Johnson, Boswell, Rousseau, Strachey, Sartre, Richard Wright, Cleaver and Mailer.

The following courses are open primarily to advanced students; enrolment will be restricted at the discretion of the instructor.

[300. *Old English Literature:* Mr. Burlin.]
After a brief introduction to the language and some reading of prose, the first term will be devoted to short lyrics and questions of Old English poetic style; the second term, to a careful study of the text and critical problems of *Beowulf*.

[301a. *Readings in the Middle English Literature:* Mr. Burlin.]
Texts will be chosen to suit the interests and abilities of the group; Romances, Lyrics and Drama; *Piers Plowman,* Gower, Lydgate, Malory and the Scottish Chaucerians.

311b. *Studies in Sixteenth Century Poetry:* Miss Davis.
Close analysis of the love poetry of the sixteenth century with special attention to the sonnets of Sidney, Spenser and Shakespeare.

[321a. *English Drama to 1642:* Mr. Kramer.]
& b. (a) Development of the English drama from liturgical beginnings to the death of Elizabeth (1603). (b) Jacobean and Caroline drama. Methods of production, emergence and interrelatedness of types and modes of drama, and close attention to individual texts will be stressed in both semesters.

325a. *Studies in Shakespeare:* Mrs. Kohler.
The intensive reading of a group of three or four selected Shakespearean plays.

330a. *The Seventeenth Century:* Miss Stapleton.
& b. Among the writers are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. The second term is

devoted primarily to Milton. Special attention is given to the thought of the period.

[341a. *The Augustan Age:* Mr. Ramsey.]

Close analysis of selected masterpieces of the major Augustan writers from Congreve to Fielding. Pope and Swift will receive the main emphasis.

346a. *The Age of Johnson:* Mrs. Lustig.

Chiefly the critical study of Samuel Johnson and his circle (Boswell, Goldsmith, Gibbon, Reynolds and Burke), with attention also to their critics (Blake and Paine) and other significant writers of the latter half of the eighteenth century (Hume, Fielding, Sterne and Gray).

352a. *Theory and Structure in the Poetry of the Nineteenth Century:* Mrs. Koch.

The relationship of critical thought to the structure of poetry of major Romantic and Victorian poets will be examined, with particular emphasis on the function of time in both poetic theory and practice.

354b. *Selected Victorian Texts:* Mr. Litwinko.

Stylistic and cultural investigations of important prose works and poems. Carlyle, Tennyson, Browning, Swinburne and others will be considered.

[371a. *Post-Romantic to Early Modern in English Poetry:* Mr. Jackson.]

A study of Yeats, Pound and Eliot and their Victorian, Decadent and Symbolist roots.

[382b. *Pastoral and Landscape Literature:* Mr. Ramsey.]

Studies in the imaginative creation of ideal landscapes and the figurative interpretation of actual landscapes in selections from authors such as Vergil, Shakespeare, Spenser, Milton, Marvell, Pope, Keats, Stevens, Faulkner and Frost.

389b. *Studies in Twentieth Century Criticism:* Mr. Jackson.

Study of the sources, techniques and philosophical bearings of the dominant modes of modern critical thought, centering on Coleridge, Arnold, Ruskin, Richards, Leavis, Empson, Brooks and Frye.

Senior Conference: The Senior Conference will continue for the entire year under the supervision of two instructors each semester. There will be a core of reading, determined in advance by the two instructors for

each semester and required of all seniors in advance of the actual conference work. The reading will consist of eight substantial and significant works drawn from all periods of English and American literature, ranging from the late medieval period to the modern. In the first semester four works will be chosen from the period bounded by the careers of Chaucer and Milton; in the second semester, four from the period between the Restoration and the present. No attempt will necessarily be made to find works with a common theme, genre, mode or structure.

Majors in English will be expected to know the works in advance—either through course work or summer reading. The conferences will consider kinds of critical approaches to these works and will demand further reading, as well as reports by the students. A work may be considered in its historical context (political, philosophical, occasional background); in the context of other works by the author (for both thematic and formal comparison); in the context of other works of the same period; and, for structural and generic studies, in the context of the entire spectrum of English and American literature. Concurrently the student will become acquainted with examples of practical and theoretical criticism and exemplify these various approaches.

At the end of the year the students will be examined by a committee of three members of the Department *not* involved in supervision of the conference. The examination will be written; it will focus upon the core reading directly, but questions will be of a broad sort that will allow for many kinds of exemplification as well as intelligent use of supplementary and secondary reading. The student will also be allowed two other options. With the approval of the instructors, she may present a paper of approximately twenty pages on a topic of her choosing related to the core reading. (Such an alternative will have to be decided upon early in the second semester and be contingent upon full participation in the seminar work.) Secondly, the student may present herself to the Examination Committee for a fifty-minute oral examination. The grade for the year will be determined by the Examination Committee in consultation with the conference instructors.

Honors Work: In the senior year, Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on the Friday two weeks before the end of classes.

French

Professors: Michel Guggenheim, PH.D., *Chairman*
Mario Maurin, PH.D.
Associate Professors: Gérard Defaux, *Agrégé*
M. Pauline Jones, PH.D.[1]
Assistant Professor: Catherine Lafarge, PH.D.[2]
Visiting Lecturer: Lucienne Frappier-Mazur, *Agrégée*
Lecturers: Margaret Maurin, PH.D.
Serge Serodes, *Agrégé*
Instructors: Susan Burkhead, M.A.
Josette Khayat, M.A.
Joan C. Stevens, A.B.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A second-year half-course is devoted to advanced language training, with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 001, 002 and 205c, the use of the Laboratory forms an integral part of the course. French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the junior year or during the summer at the *Institut* in Avignon. Residence in French House for at least one year is advisable.

Requirements in the Major Subject: French 101, 201, 202, one advanced literature course and the Senior Conference. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, substitute a more

1. On leave, semester 1, 1970-71.
2. On leave, 1970-71.

advanced course for French 101. Occasionally, students may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department, with the approval of the Dean of the Graduate School.

All French majors are expected to have acquired fluency in the French language (written and oral). When necessary, they will be required to take French 205c.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

001. *Elementary French:* Mrs. Stevens, Miss Burkhead.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

002. *Intermediate French:* Mrs. Stevens, Miss Burkhead.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language:* Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201a. *French Literature of the Seventeenth Century:* Mr. Serodes.

The course will cover representative authors and literary movements of the century, including works of Corneille, Pascal, Molière, Racine, La Fontaine and La Bruyère. Special attention will be given to the concept of the Baroque, the development of Tragedy and the Age of Classicism.

201b. *French Literature of the Eighteenth Century:* Mr. Guggenheim.

The course will include texts representative of the Enlightenment and the Preromantic movement, with emphasis upon the development of liberal thought as illustrated in the *Encyclopedie* and the works of Montesquieu, Voltaire, Diderot, and Rousseau.

202a. *French Literature of the Nineteenth Century:* Mr. Maurin, Mrs. Maurin, Mr. Serodes.

The poetry, drama and prose of Romanticism. A study of representa-

tive novelists such as Stendhal, Balzac, and Flaubert. Poetry in the second half of the century: the aesthetics of the Parnasse, Baudelaire, the Symbolist movement.

202b. *French Literature of the Twentieth Century:* Miss Jones, Mr. Maurin, Mr. Serodes.

A study of selected works illustrating the principal literary movements from the turn of the century to the present. Special attention will be given to Gide, Proust, Valéry and Claudel; the surrealist poets and their successors; the renaissance of the theater from Giraudoux to Beckett; the ideological and existentialist novel as represented by Malraux, Sartre, and Camus.

[203a. *French Literature of the Middle Ages:* Mr. Defaux.]

A study, through selected works read in modern French versions, of the main literary genres of medieval literature: epic and lyric poetry, *roman courtois,* satire, historical chronicles, religious and comic theater.

204a. *French Literature of the Sixteenth Century:* Mr. Defaux.

A study of the development of Humanism, the concept of the Renaissance, Reformation. The course will focus on representative works, with special attention given to the prose of Rabelais and Montaigne, the *conteurs,* the poetry of Marot, the Pléiade and d'Aubigné.

205c. *Advanced Training in the French Language:* Mr. Guggenheim, Miss Jones.

Intensive practice in writing and speaking the language. Compositions, literary translations, oral reports and discussions.

302a. *Le Théâtre tragique au XVII^e siècle:* Mr. Maurin.

302b. *Le Théâtre du XX^e siècle:* Miss Jones.

303a. *Le Roman du XX^e siècle:* Mr. Guggenheim.

303b. *Le Roman du XVIII^e siècle:* Mr. Defaux.

[304. *French Essayists and Moralists:* Mr. Guggenheim, Mr. Maurin.]

305a. *Balzac:* Mrs. Frappier-Mazur.

305b. *Autobiographies de Chateaubriand a Sàrtre:* Mr. Maurin.

Courses at Haverford

301a. *Rabelais:* Mr. Gutwirth.

301b. *Flaubert, Mallarmé:* Mr. Cook.

Junior Year Abroad: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their junior year in France under one of the junior year plans, such as those organized by Sweet Briar, Smith, Hamilton Colleges, or l'Académie.

Summer Study: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Etudes Françaises d'Avignon,* held under the auspices of Bryn Mawr. The *Institut* is designed for selected men and women undergraduate and graduate students with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, social sciences, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

Senior Conference: A weekly seminar *(Travaux pratiques de critique littéraire)* followed at the end of the year by an oral explication of a French literary text and a three-hour written examination on a period of French literature.

Honors Work: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

Professor: Edward H. Watson, PH.D., *Chairman*

Associate Professor: Lucian B. Platt, PH.D.

Assistant Professors: Maria Luisa B. Crawford, PH.D.
William A. Crawford, PH.D.
W. Bruce Saunders, PH.D.

Assistants: Earl A. Shapiro, M.S.
Mary Emma Wagner, M.A.

The Department seeks to make students more aware of the physical world around them. The subject includes a study of the nature of the materials of which the earth is made, of the physical processes which have formed the earth and especially the earth's surface, of the history of the earth and its organisms, and of the various techniques necessary to investigate earth processes and history. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies outside the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department. In addition, the Senior Conference is required.

Allied Subjects: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology:* Mr. Watson. Laboratory: Mr. Crawford, Mr. Platt.
A study of earth materials; earth structure; surface processes such as the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes; and of the features to which they give rise. Three lectures, four hours laboratory or field work a week.

101b. *Historical Geology:* Mr. Platt. Laboratory: Mrs. Crawford, Mr. Saunders.
The history of the earth from its beginning, and the evolution of

the living forms which have populated it. Three lectures, four hours laboratory or field work a week. A three-day field trip is taken in the spring.

201a. *Crystallography:* Mrs. Crawford.
Crystallography and elementary crystal optics. Three lectures, six hours laboratory a week.

201b. *Mineralogy:* Mr. Watson.
Descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours laboratory a week.

202. *Paleontology:* Mr. Saunders.
A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours laboratory a week.

[203. *Physiography:* Mr. Watson, Mr. Crawford.]
The origin of land forms: a study of chosen areas from the viewpoint of topography, geologic structures, processes of erosion, climate and soils. Geology 101 is a prerequisite.

301a. *Structural Geology:* Mr. Platt.
Introduction to the analysis of igneous, sedimentary and metamorphic structures, faults and folds and field mapping. Three lectures and three hours laboratory or field work a week.

301b. *Tectonics:* Mr. Platt.
Fundamental concepts, e.g., continental drift, sea floor spreading and the origin of island arcs, mountain chains, geosynclines, oceans, continents and rift valleys in the context of earth hypotheses such as convection currents, the origin of the earth, etc. Three lectures and three hours laboratory or field work a week.

[302. *Stratigraphy.*]

303a. *Introduction to Geochemistry:* Mr. Crawford.
An elementary treatment of thermodynamics and solution chemistry as applied to geological systems to include phase equilibria, structural chemistry and the behavior of elements in solution. The laboratory will consist of: determination of heats of reaction, fusion, etc.; phase equilibria experiments; and oxide analyses of rocks and minerals by both

wet chemical and instrumental methods. Prerequisite: Geology 101 and Chemistry 101. Three lectures and three hours laboratory a week.

304b. *Introduction to Petrology:* Mr. Crawford.

The origin, mode of occurrence and distribution of igneous and metamorphic rocks. The laboratory will include hand specimen, microscopic and chemical study of the various rock types. Prerequisite: Geology 101 and Geology 201 (may be taken concurrently). Three lectures and three hours laboratory a week.

305b. *X-ray Crystallography:* Mrs. Crawford.

An introduction to the elements of x-ray crystallography including the geometry of crystals, the physics of x-rays and how x-rays interact with crystals. The laboratory will cover experimental study of powder and single-crystal x-ray diffraction. Prerequisite: Any 101 science. Two lectures, four hours laboratory a week.

Certain graduate courses are open to properly trained undergraduates with the approval of the Dean of the Graduate School.

Senior Conference shall consist of:

1. A seminar in "Topics in Geology," led by members of the Department.
2. a. A written report on an independent project in the field, laboratory or library.
 b. Or, an examination in a special field of Geology.
 c. Or, a general examination in an allied field.

Honors Work: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

German

Professor: Hans Bänziger, PH.D., *Chairman*
Visiting Professor: Franz H. Mautner, PH.D.
Assistant Professor: Nancy C. Dorian, PH.D.
Lecturers: Katrin T. Bean, PH.D.
James W. Scott, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 001 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 001 and 201 the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in one of the summer schools of Germany, Austria or Switzerland and/or by spending the junior year in Germany.

The German Departments of Bryn Mawr College and Haverford College cooperate to offer the widest possible range of courses to students in both colleges. Consult the Haverford College Bulletin for courses offered.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 201a or b, 202, 300a, and at least one other advanced unit. The Senior Conference is also required. Special consideration is given to students who have supplemented their linguistic training as outlined above.

Allied Subjects: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

001. *Elementary German* (Speaking and Reading) : Members of the Department.

The course offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature:* Members of the Department.

Continued practice in speaking and writing. Reading and discussion of selected works of German literature, including poetry, novellae, and drama. Emphasis will be on nineteenth and twentieth century authors.

201a. & b. *Advanced Training in the German Language:* Members of the Department.

Advanced training in speaking, writing, translating; stylistic exercises; reading of non-fictional material; oral reports and discussions; compositions. In the second semester the emphasis will be on the spoken language. Short plays will be read and possibly produced.

202a. *Goethe and Schiller:* Mr. Scott.

Study of Schiller's and Goethe's works, including *Faust,* within their contemporary literary and intellectual setting.

202b. *Romanticism:* Mr. Cary (352b at Haverford).

Study of the German romantics, their ideas and works, from Novalis to Heine.

[300a. *German Literature from the Beginnings to the Baroque:* Mr. Scott.]

An intensive survey of the literature of the Middle Ages, Humanism and the Reformation, and representative works of the Baroque period. The older works will be read in modern German translations.

[301b. *Introduction to Germanic Philology:* Miss Dorian.]

History of the language situation in the German-speaking world from the earliest records until the present day.

[302b. *German Language and Literature of the Middle Ages:* Mr. Scott.]

Introduction to the German language and culture of the Middle Ages. Reading of representative works such as *Der arme Heinrich, Tristan* and selections from *Minnesang,* in the original language.

303b. *The Modern German Novel:* Mr. Scott.

Works by authors of the early twentieth century (Musil, Kafka, Mann, Rilke, Hesse) will be treated to a close analysis for the purpose of developing appropriate critical methods and an appreciation of the importance of these works in the history of German literature.

[304b. *The German "Novelle":* Mr. Bänziger.]

Discussion of the evolution of this form and close analysis of representative works.

[305. *The German Drama:* Mr. Bänziger.]

Study of various dramatic forms. Emphasis on parallel European and modern developments.

306a. *German Poetry:* Mr. Bänziger.

Study of the work of major poets, among them Goethe, Rilke and a contemporary author.

Senior Conference:

(1) Each major is expected to write a paper under the supervision of a member of the Department;

(2) Each major is expected to participate in a conference during the second semester;

(3) An oral examination on the topics discussed in the conference will be given at the end of the year.

Honors Work: On recommendation of the Department, students in the senior year will be admitted to Honors work consisting of independent reading, conferences and a substantial paper.

Greek

Professors: Mabel Louise Lang, PH.D., *Chairman*
Richmond Lattimore, PH.D., LITT.D.

Assistant Professor: Gregory W. Dickerson, M.A.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

Requirements in the Major Subject: 001, 101a, 201ab, 301ab, one other half-unit course and the Senior Conference. Prospective majors in Greek are advised to take Greek 001 in the freshman year.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, History of Religion, any language, Philosophy.

001. *Elementary Greek:* Miss Lang.
Semester I: elements of grammar with prose composition and selected reading from ancient authors and the *New Testament. Semester II:* the *Apology* and *Crito* of Plato; sight reading in class from Euripides' *Alcestis.*

101a. *Herodotus:* Miss Lang, Mr. Lattimore.
After a review of Attic Greek with Plato's *Menexenus* the reading is Book VI of Herodotus; prose composition is required.

101b. *Tragedy:* Mr. Lattimore, Mr. Dickerson.
Sophocles' *Antigone* and Euripides' *Medea;* a critical literary paper is required.

102a. *Homer:* Mr. Dickerson.
Several books of the *Odyssey* are read, and verse composition is attempted.

201a. *Plato and Thucydides:* Mr. Dickerson.
The *Symposium* and an abridged version of the Sicilian Expedition, with required prose composition.

201b. *Hesiod and Tragedy:* Mr. Lattimore.
The Works and Days, Euripides' *Bacchae* and Sophocles' *Oedipus Tyrannus;* a critical literary essay is required.

203a.* *Greek Literature in Translation:* Miss Lang, Mr. Lattimore.
The epics of Homer and Hesiod, early lyric poetry and the *History* of Herodotus are examined and interpreted as expressions of Greek culture.

203b.* *Greek Literature in Translation:* Mr. Lattimore, Mr. Dickerson.
The tragedies of Aeschylus, Sophocles and Euripides are studied along with the comedies of Aristophanes and Thucydides' *History of the Peloponnesian War.*

301a. *Lyric Poets:* Mr. Lattimore.
Early elegiac, iambic and lyric poetry, including the odes of Pindar.

301b. *Aeschylus and Aristophanes:* Mr. Dickerson.
Aeschylus' *Agamemnon* and Aristophanes' *Frogs.*

For work in Greek History see History 205b.

Senior Conference: Weekly meetings with the members of the Department to explore in depth one or two areas (such as Homer and Oral Poetry, the Lyric Age of Greece, Attic Tragedy, the Golden Age of Athens, Biography and Rhetoric in Early Greek History, Folklore and Mythology in Greece). Oral reports will be scheduled throughout the year, and at the end there will be a written examination in sight translation from Greek to English and whatever other evaluation of the conferences each group deems appropriate.

Students doing their major work in Greek only will be expected to elect two conference areas; those doing a double major or a minor in another field will elect only one. A student majoring in another field may be admitted to one of the conferences without being liable for the translation examination.

Honors Work: Honors may be taken by qualified seniors either in conjunction with the advanced course or after its completion.

History

Professors: Arthur P. Dudden, PH.D., *Chairman*
Elizabeth Read Foster, PH.D., *Dean of the Graduate School*
Caroline Robbins, PH.D.
J. H. M. Salmon, M. LITT, LIT. D.
James Tanis, TH.D., *Director of Libraries*

Associate Professors: Charles M. Brand, PH.D.
Mary Maples Dunn, PH.D.
Barbara M. Lane, PH.D.
Alain Silvera, PH.D.

Assistant Professor of the History of Science: Charles A. Culotta, PH.D.

Visiting Lecturer: Herbert Aptheker, PH.D.

Professor of Classical and Near Eastern Archaeology:
Machteld Mellink, PH.D.

Professor of Greek: Mabel Lang, PH.D.

Instructor of Latin: Jon-Henri Damski, M.A.

The History major is designed to enable the student to acquire historical perspective and historical method. Courses stress the development of ideas, cultures and institutions—political, social and economic—rather than the accumulation of data about particular events. Students study some topics and periods intensively in order to learn the use of documentary material and the evaluation of sources. Extensive reading is assigned in all courses to familiarize majors with varied kinds of historical writing and, in most courses, critical or narrative essays are required.

Requirements in the Major Subject: Students are expected to complete four units of History and two units of allied work meaningfully related to the discipline of History. The basic selection of courses is planned in the spring of the sophomore year and depends upon the special interests of each student together with the availability of courses. A suitable distribution of work to be undertaken by History majors should include at least: 1) one European course; 2) one American or non-European course; 3) one ancient, medieval, or early modern course concentrated before 1789; 4) one modern course concentrated after 1789. A particular course may very well satisfy more than one of the above qualifications. History majors must select at least one course at the 300-level. Each History major will, in addition to the foregoing requirements, participate in the Senior Conference.

Allied Work: A wide choice is open to majors in History; in general those in modern fields will find courses in the Social Sciences most suitable, while those in earlier periods may select, with the permission of the departments concerned, courses in Classical Studies, in Philosophy and History of Art. Intermediate or advanced courses in Literature and in Language may also serve to enrich the major offering.

200. *Topics in European History:* Mr. Brand, Mr. Silvera.

Selected topics in the history of Europe since the fall of the Roman Empire and an introduction to outstanding types of historical inquiry. A small number of problems will be studied in depth. Student reports will form a principal element in the course to train students in research techniques.

Note: History 200 will normally serve as a potential major's first course, but it will not satisfy the departmental distribution requirements

indicated above. Students wishing a survey of the history of western civilization may prefer to elect History 111 at Haverford.

201. *English History:* Mr. McKenna (Haverford).

The evolution of English institutions from Saxon times to the present.

202. *The Development of the United States of America:* Mr. Lane (Haverford).

A study of American life in the eighteenth, nineteenth, and twentieth centuries, with emphasis upon the formation of the Republic and its subsequent transformations.

203. *Medieval European Civilization:* Mr. Brand.

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included.

[204. *Europe, 1789-1848:* Mr. Silvera.]

The French Revolution and the spread of revolutionary ideas and the idea of nationalism throughout the Napoleonic epoch comprise the first semester. Political and social history from the age of Metternich through the revolutions of 1848, including the effects of the industrial revolution, the growth of nationalism, and the varieties of socialism, will be covered in the second semester.

205a. *The Ancient Near East:* Miss Mellink.

An introduction to the history of the ancient Near East from the beginning of the third millennium B.C. to the rise of the Persian Empire. The sources and nature of the earliest history of Egypt and Mesopotamia; the international developments in Western Asia and Egypt during the second millennium B.C.; the Dark Ages and survival of traditions in the Near East at the beginning of Greek history.

205b. *Ancient Greece:* Miss Lang.

A study of Greece from the Trojan War to Alexander the Great, with particular attention to the constitutional changes from monarchy, through aristocracy and tyranny, to democracy in various parts of the Greek world. The stress will be on ancient sources, including historians, inscriptions and archaeological and numismatic materials.

206a. *Roman History:* Mr. Damski.

The rise of Rome in Italy, contacts with the Hellenistic world, and the growth of the Roman Empire. Reading from source material and an essay will be required.

[207. *Latin America: Colonies and Revolutions:* Mrs. Dunn.]

The conquest of South America, the transplantation and modification of European institutions, the colonial society, economy, and culture will be studied, followed by the revolutionary movements, and the establishments of new nations.

[208. *Byzantine History:* Mr. Brand.]

Political, institutional and cultural history of the Byzantine (Later Roman) Empire from the reforms of Diocletian and conversion of Constantine to the capture of Constantinople in 1453. Contacts with Arabic, Turkish, Armenian, Slavic and West European peoples will be stressed.

209. *Early American History, 1607-1789:* Mrs. Dunn.

In the first semester, an investigation of the founding of the English colonies in North America and the West Indies, and their development in the seventeenth and early eighteenth centuries. In the second semester, emphasis will be placed on the causes and interpretations of the Revolution, the writing and ratification of the Constitution.

[210. *Topics in the History of the Near East:* Mr. Silvera.]

A survey of the Arab world and Turkey since the end of the Middle Ages. Among the topics to be studied will be the legacy of Islam, the rise and decline of the Ottoman Empire, the impact of the West and the growth of Arab nationalism.

211b. *Medieval Mediterranean World:* Mr. Brand.

The Mediterranean, from Islamic to Italian domination, 10th-13th centuries: Muslim Spain and North Africa, Norman Sicily, the Italian commercial states, the Crusades, and Islamic-Byzantine-Western relations. Prerequisites: reading knowledge of French *or* German, and at least one semester of History 203 *or* 208 *or* equivalent work in some related field.

[212. *Renaissance and Reformation:* Mr. Salmon.]

The course will consider the principal intellectual and religious

movements in European History against their social background from the mid-fifteenth century to the mid-seventeenth century.

[213a. *Minority Peoples in the United States:* Mr. Dudden.]

An introductory program of investigations into the uneven results of acculturation, assimilation and emancipation. This course will encourage students to undertake biographies within selected social groupings, and it will also be directed toward the problem of achieving social biography in an aggregate sense. For sophomores and juniors only.

[220a. *History of Canada.*]

Canadian history from the seventeenth century to the present will be studied through reading and seminar discussions. The approach will be topical, treating such problems as the French-Canadian minority, imperial administration, political and economic growth, and the search for a national identity.

225. *Europe since 1848:* Mrs. Gerstein (Haverford).

The main political, social and cultural developments of the European states since mid-nineteenth century. The first semester will extend to the first World War.

227. *The Age of Absolutism:* Mr. Spielman (Haverford).

The emergence of the European state system from the early seventeenth century to the revolutions of the eighteenth century, including the revolutions in political and scientific thought.

230. *A History of the Afro-American People:* Mr. Aptheker.

A two-semester course concentrating upon the experiences, concepts, organizations and struggles of the Black People in the United States. The time range will be from the commencing of the modern slave trade in the fifteenth century to the present era; attention will be given to the intertwining of this history with United States and world history.

[244. *Russian History:* Mrs. Gerstein (Haverford).]

A topical study of Russian history from Kiev to the death of Lenin. The first semester will deal with the problem of Russian medieval culture, the growth of Muscovite absolutism, and the impact of the West in the eighteenth century; the second semester will cover modernization, the growth of the radical intelligentsia and the Russian Revolution to 1924.

260. *Germany since 1815:* Mrs. Lane.

The course will provide some introduction to German history during the Enlightenment, the French Revolution, and the Napoleonic period. Its main emphasis will be on the economic, social and intellectual history of Germany in the nineteenth and twentieth centuries. The first semester will end at 1918. The second semester will include a substantial consideration of the 1950's and 1960's.

302. *France, 1559-1661:* Mr. Salmon.

The course will investigate the hypothesis that profound changes in French social structure occurred during the religious wars, with consequent repercussions in the age of Richelieu and the Fronde. The literature and political thought of the period will be discussed in the context of their religious and social background.

303. *Recent History of the People of the United States:* Mr. Dudden.

Studies of social change and response beginning with the late nineteenth century, together with considerations of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics and the main currents of thought and artistic expression. With permission, students may elect one semester only.

[305. *Italian Renaissance, 1200-1520.*]

Out of its medieval setting the evolution of the urban civilization of Northern Italy will be examined within its socio-economic as well as its cultural context. Not only Florence, but the other major city-states as well will be investigated in detail. The course will also devote ample time to the study of leading figures of the period through Machiavelli.

[307a. *The Spanish Civil War:* Mrs. Lane.]

Focuses initially on Spain, then proceeds to broader problems of European intellectual and political history during the 1930's, using the Civil War to illustrate them.

[308a. *Germany since 1890:* Mrs. Lane.]

Traces the political, economic, social, and intellectual history of Germany from Bismarck's fall to the Adenauer era.

310b. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change:* Mrs. Dunn.

Emphasis will be placed on cultural conflict; the historical development of institutions such as church, hacienda, caciquismo; and on the nature and dynamics of the protracted revolutionary movement from Hidalgo to Cardenas. Prerequisite: History 207 or permission of the instructor. Offered in alternate years.

314. *History of Science:* Mr. Culotta.

(INT.) Historical changes in the concept "science" are examined. Emphasis is placed on the history of man's ideas about himself and the universe. The first semester covers the development of science from antiquity to the seventeenth century. The second semester continues into the twentieth century by developing select topics and their philosophical and social impact. With permission, students may elect one semester only.

320a. *Holland's Golden Age:* Mr. Tanis.

The Dutch contribution to the modern world. A study of the cultural and intellectual life of the Netherlands in the seventeenth century, emphasizing the philosophical and theological thought of the period, against a background of general economic and political considerations. Brief attention will be given to the interplay of the artistic and literary contributions of the age.

321b. *Revolution within the Church:* Mr. Tanis.

An investigation of those violent theological struggles within the Western Christian Church which have brought about reformation and schism from the sixteenth century to the present. Emphasis will be placed on the twentieth century.

330. *France since 1870:* Mr. Silvera.

The main political, social and intellectual developments from the Commune to the First World War will be covered in the first semester. In the second semester, the national experience through Vichy and the Resistance to de Gaulle's Republic. Prerequisite: a reading knowledge of French.

370a. *The Great Powers and the Near East:* Mr. Silvera.

Traces the economic and social as well as the diplomatic aspects of the Eastern Question from the War of Greek Independence to the Suez War.

Topics Courses at Haverford

340b. *United States History:* Mr. Lane.

351a. *Regional History: The Delaware Valley:* Mr. Bronner.

352b. *Religious Utopias:* Mr. Bronner.

355a. *European History: French Revolution:* Mr. Spielman.

356b. *European History: Russian Revolution of 1917:* Mrs. Gerstein.

357a. *British History: Tudor England:* Mr. McKenna.

Senior Conference: The Historical Discipline: Mr. Salmon and the Department.

This program will center on the philosophy of History encompassing History's underlying concepts as well as historiography and methodology. There will be a number of general conferences, with an examination on the philosophy of History at the end of this series. These general conferences will be confined to the critical rather than the speculative aspects of philosophy of History, i.e., the concern will be with the nature of historical explanation, objectivity and relativism, causal judgment and the like. Students will then disperse to special fields for tutorial sessions on historians in their particular special field. Here they will write a number of short essays.

Honors Work: Honors work in any of the advanced fields is offered for the senior year to any History major who completes her third year with a record of distinction. An essay based on source material must be presented before May 1.

History of Art

Professor: Charles Mitchell, M.A., B.LITT., LITT.D.[1]

Associate Professors: James E. Snyder, M.F.A., PH.D., *Acting Chairman*
Charles G. Dempsey, M.F.A., PH.D.

Assistant Professor: Arthur S. Marks, PH.D.

Lecturer: Robert W. Gaston, D.PHIL.

Associate Professor of Fine Art: Fritz Janschka, *Akad. Maler*

The Department regularly offers an introductory course (involving some studio work), a series of general intermediate courses and more concentrated advanced half-courses, and instruction on special topics to majors in their senior year. The program is open also to undergraduates of Haverford College.

Requirements in the Major Subject: At least four units of course-work in art history, normally including Art 101 and always one unit of advanced course work, together with the Senior Conference and two units of allied work. Intermediate courses with supplementary work may sometimes be counted as advanced at the discretion of the Department.

Students contemplating a major in History of Art are strongly advised to consult the Department as early as possible in their College careers.

Allied Subjects: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* The Department.
The course is designed as an introduction to the methods and scope of art history in the field of Western art from medieval to modern times. Studio work, two hours weekly.

Intermediate courses:

204. *Modern Art:* Mr. Marks.

211. *Early Medieval and Byzantine Art:* Mr. Gaston.

212. *Romanesque and Gothic Art:* Mr. Snyder.

213. *Renaissance and Baroque Art:* Mr. Dempsey.

1. On leave, 1970-71.

Advanced courses:

321a. *Topics in Early Medieval Art:* Mr. Gaston.

322b. *Late Gothic Painting in Northern Europe:* Mr. Snyder.

323b. *Titian:* Mr. Dempsey.

324a. *Problems in Modern Architecture:* Mr. Marks.

Senior Conferences: Members of the Department hold regular conferences with senior majors on their special subjects. The evaluation is in three parts, each of three hours:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special topic.

Honors Work: Offered to suitable students on invitation of the Department.

History of Religion

Professor: Howard C. Kee, PH.D., *Chairman*
Visiting Lecturer: Samuel T. Lachs, PH.D.

Professor of Philosophy: Jean A. Potter, PH.D.
Director of Libraries and Professor of History:
James R. Tanis, TH.D.

At Haverford:

Associate Professor of Religion: Richard Luman, PH.D.
Assistant Professor of Religion: J. Bruce Long, PH.D.

The History of Religion major concentrates on the historical study of the religious traditions which have contributed most to shaping the culture of the West: The Religion of Israel, Judaism and Christianity. The student is expected to achieve facility in critical analysis of the primary sources of these traditions and in tracing their development against the background of the cultural situations in which they arose and matured.

Requirements in the Major Subject: At least four courses in History of Religion, of which three must be in the history of Judaism or Christianity and one in another religious tradition (e.g. Hinduism or Buddhism). The Senior Conference is also required.

The normal pattern for the major consists of one introductory course (100 level), two intermediate courses (200 level) and two advanced half-courses or a year seminar (300 level). Students in advanced courses who are majoring in History of Religion are required to demonstrate a working knowledge of the language appropriate to their field of concentration: Hebrew for the Religion of Israel or Judaism, Greek for New Testament or Early Christianity, Latin for Medieval Christianity, German for the Reformation Period.

Allied Subjects: Philosophy, History, History of Art, Archaeology.

001. *Elementary Hebrew:* Mr. Lachs.
Grammar, composition and conversation, with primary emphasis on fluency in reading. Course designed for preparation in reading classical religious texts.

103a. & b. *History and Literature of the Bible:* Mr. Kee.
a. A study of the history of Israel and its sacred literature against the background of the ancient Near East, the development of the legal, prophetic and wisdom traditions. b. The beginnings of Christianity, tracing the influences of Judaism and of Hellenistic culture and religion on the life and thought of the New Testament community.

104a. & b. *History and Literature of Judaism:* Mr. Lachs.
a. Historical study of Judaism from the Exile through the Talmudic period, with major focus on the literature. b. The historical development and the literature of Judaism from early medieval to modern times.

207a. *Jesus and the Gospel Tradition:* Mr. Kee.
Historical sources for the life of Jesus; the varying interpretations of Jesus in the gospel tradition; the rise of critical method for evaluating the sources.

208b. *Paul and the Rise of Gentile Christianity:* Mr. Kee.
A detailed analysis of the letters of Paul, with special reference to the interpretation of Christianity in the Roman world.

210b. *Medieval Philosophy:* Miss Potter. (See Philosophy 210b.)

[301a. *Gnosticism:* Mr. Kee.]
The antecedents of Gnosticism in the Hellenistic world. Theories about the rise of gnosticism. A study of the primary gnostic documents.

302a. *Readings in the Greek New Testament:* Mr. Kee.
An analysis of the literary forms and leading ideas of selected New Testament writings.

[302b. *Jewish Antecedents of Early Christianity:* Mr. Kee.]
The so-called inter-testamental literature, with special attention to the apocalyptic and wisdom writings, including the Dead Sea Scrolls.

[303a. *Hellenistic Religions and Early Christianity:* Mr. Kee.]
The mystery religions, wisdom speculation in Judaism; Philo's synthesis of revelation and reason; Hellenistic elements in the New Testament.

303b. *Myth and History:* Mr. Kee.
A study of the *Gospel of John,* its sources, its use of Jewish, Hellenistic and Gnostic concepts, with special attention to Rudolf Bultmann's interpretation of John as demythologization.

321b. *Revolution within the Church:* Mr. Tanis. (See History 321b.)

At Haverford:

Religion 117. *A History of Jewish Thought:* Mr. Lachs.

Religion 201. *History of Western Religious Thought and Institutions:* Mr. Luman.

Religion 225. *Religious Traditions of India:* Mr. Long.

At Swarthmore:

Religion 24. *Mysticism East and West:* Mr. Swearer.

Senior Conference: In the first semester students meet for weekly conferences to explore and discuss historical and literary aspects of early Judaism and Christian beginnings; during the second semester each student will carry on research in relation to her special interests, report-

ing periodically to the other members of the Senior Conference, and will present the results of her research in written form before the end of the term. The student's work will be evaluated on the basis of her oral contribution in the first semester and her written report in the second.

Honors Work: Qualified students are admitted to Honors work on the recommendation of the Department.

Italian

Lecturers: Nicholas Patruno, M.A.
Elizabeth Welles, M.A.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior year in Italy or to study in approved summer schools in Italy or in the United States.

Requirements in the Major Subject: Italian 101, 201, 301 and at least one other advanced course. For students who enter the College with Italian, proper substitutions will be made. In all courses students are urged to use tapes available in the Language Laboratory.

Allied Subjects: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests.

001. *Italian Language:* Mr. Patruno.
A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature.

101. *Intermediate Course in the Italian Language:* Mrs. Welles.
Readings from selected Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c.* *Dante in English Translation.*]
The *New Life* and *Divine Comedy.*

[103c.* *Literature of the Italian Renaissance in English Translation.*]
From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature:* Mrs. Welles.
Reading and explanation of texts, with a study of literary history; conducted in Italian.

202. *Advanced Course in the Italian Language:* Mr. Patruno.
Advanced work in composition.

[301. *Dante:* Mr. Patruno.]
The *Vita Nuova* and *Divina Commedia,* with some attention to the minor works. Prerequisite: permission of the instructor.

[303. *Italian Literature of the Rinascimento.*]

304. *Italian Literature of the Romantic Period:* Mr. Patruno.

[305. *Twentieth-Century Italian Literature.*]

Senior Conference: In the first semester weekly meetings devoted to the study of special topics in Italian literature chosen by the students, to be evaluated by a written examination in January. In the second semester each senior will prepare under the direction of her instructor a paper on an author or a theme which she has chosen. There will be a brief oral examination in Italian.

Honors Work: On the recommendation of the Department a student may undertake Honors work in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

Professor: Agnes Kirsopp Michels, PH.D., *Chairman*
Associate Professor: Myra L. Uhlfelder, PH.D.
Assistant Professors: Gregory W. Dickerson, M.A.
Russell T. Scott, PH.D.[1]
Instructor: Jon-Henri Damski, M.A.

The major in Latin is planned to give the students familiarity with the most important works of Latin literature and with the Roman contribution to the post-classical world.

Requirements in the Major Subject: Latin 101, 201, either 301 or 302 and the Senior Conference. 203a is a prerequisite for Honors work, and students who plan to teach are strongly advised to take this course.

Allied Subjects: Greek, History, Classical and Near Eastern Archaeology, History of Art, History of Religion, Philosophy, Anthropology, any modern literature.

001. *Elementary Latin:* Mrs. Michels, Mr. Dickerson.
Basic grammar with composition and selected readings from Latin authors in the first semester. In the second semester selected readings from prose authors and from Vergil's *Aeneid,* with exercises in composition. Those who complete the course satisfactorily will be eligible to take Latin 101.

002. *Intermediate:* Mr. Dickerson, Mr. Damski.
This course is designed for students who have had two years of Latin in school. It consists of a review of grammar accompanied by graduated readings in Latin prose and poetry of various periods. Students who have had more than two years of Latin but feel the need of review will be admitted to this course by permission of the instructor. Students who complete this course satisfactorily will be eligible to take Latin 101.

101a. *Latin Literature:* Mr. Damski.
Selections from the poems of Catullus, the *Eclogues* of Vergil, and Sallust.

1. On leave, 1970-71.

101b. *Latin Literature:* Miss Uhlfelder.
Selections from Livy, Book I, and from Horace's *Odes.*

201a. *Horace and Ovid:* Miss Uhlfelder.
Reading from the *Satires* and *Epistles* of Horace, and from the *Fasti* and *Metamorphoses* of Ovid.

201b. *Latin Literature of the Silver Age:* Mrs. Michels.
Reading from the works of the chief authors with special attention to the development of literary types during the period.

202. *Medieval Latin Literature:* Miss Uhlfelder.
The reading includes selections from important writers from the late Roman Empire to the thirteenth century. This course may be taken either as a half or as a whole unit. Students who have not taken Latin 101 or 102, but wish to take Latin 202 as an elective or allied course, should consult the instructor.

203b. *Latin Style:* Mrs. Michels.
A study of Latin prose style, based on the reading of prose authors, with exercises in composition, and of Latin metrics with practice in reading aloud.

301a. *Vergil's Aeneid:* Mrs. Michels.

301b. *Livy and Tacitus:* Mr. Damski.

[302a. *Lucretius:* Mrs. Michels.]

[302b. *Cicero and Caesar:* Mr. Scott.]

For Roman history see History 206a.

Senior Conferences: Seniors will meet regularly with members of the Department for discussion of their reading in Latin literature. The evaluation of this unit's work will take the following forms:

1. A Latin sight translation examination will be offered in September, February and May. The examination must be passed by all Latin majors.
2. An examination in Latin Literature. This is required of all Latin majors. Two examinations will be given, one based on a fuller reading list for students who are concentrating all their time on

Latin, the other for students who are taking a double major or a minor in another department.

Honors Work: Honors work in either classical or medieval Latin or in Roman history is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

Professors: John C. Oxtoby, M.A., *Chairman*
Frederic Cunningham, Jr., PH.D.

Associate Professor: Ethan D. Bolker, PH.D.

Assistant Professor: Martin Avery Snyder, PH.D.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study.

Requirements in the Major Subject: At least 4½ courses including Mathematics 101, 201, 301, 303a, or equivalent. The Senior Conference is also required.

Allied Subjects: Chemistry, Economics, Philosophy, Physics, Psychology.

101. *Calculus, with Analytic Geometry:* Mr. Bolker, Mr. Snyder, Mr. Oxtoby.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry; the fundamental theorem, its role in theory and applications.

201. *Intermediate Calculus and Linear Algebra:* Mr. Cunningham.

Vectors, linear transformations, functions of several variables, partial derivatives, multiple integrals, line integrals, infinite series, Taylor's formula, differential equations.

[220c. (INT.) *Introduction to Automatic Computation:* Mr. Snyder and members of several departments.]

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory a week. Prerequisite: Mathematics 101 or the equivalent.

See Interdepartmental Course 220c, page 139.

301. *Advanced Calculus:* Mr. Snyder.

The classical theory of real functions, based on a construction of the real number system; elements of set theory and topology; analysis of Riemann integral, power series, Fourier series and other limit processes. Prerequisite: Mathematics 201.

303a. *Introduction to Abstract Algebra:* Mr. Bolker.

Groups, rings and fields and their morphisms. Prerequisite: Mathematics 201.

303b. *Topics in Algebra:* Mr. Bolker.

[304b. *Theory of Probability with Applications.*]

Probability in discrete sample spaces, stochastic independence, Laplace Limit Theorem, Poisson distribution, random walk and recurrent events—with applications to physics and statistics.

[306b. *Number Theory:* Mr. Bolker.]

Prerequisite: Mathematics 303a.

[307. *Numerical Analysis:* Mr. Snyder.]

Prerequisite: Mathematics 201.

[308. *Introduction to Applied Mathematics:* Mr. Snyder.]

Interdependence of mathematics and scientific problems; vectors, tensors, matrices, ordinary and partial differential equations, eigenfunction expansions; complex variables and transform techniques. Prerequisite: Mathematics 201.

[310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311a. *Differential Equations:* Mr. Oxtoby.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 201.

[312b. *Topology:* Mr. Cunningham.]

Prerequisite: Mathematics 301 or 303a.

320. *Real Analysis:* Mr. Oxtoby.

Topological and metric spaces, Lebesgue measure and integration, Baire category, an introduction to functional analysis. Prerequisite: Mathematics 301.

Senior Conference: Selected topics from various branches of Mathematics are studied by means of oral presentations and the solution and discussion of problems.

Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.

Music

Professor and Director of Chorus:
Robert L. Goodale, A.B., B.MUS., A.A.G.O., *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor, M.A.

Associate Professor: Isabelle Cazeaux, PH.D.

Instructor: Wilbert D. Jerome, M.MUS.

Assistant: Myrl Hermann, M.A.

Director of Orchestra: William H. Reese, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the Department offer for one unit of academic credit a year of voice or instrument lessons. The unit of credit will include the lessons and also a recital or proficiency test arranged by the department. The unit of credit will count as elective work and will not be counted toward the major.

A sequence of lessons (voice or instrument) approved by the department, of a year or more, at the request of the student, will appear on her transcript.

Requirements in the Major Subject: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. The Senior Conference is also required. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group. Equivalent courses at Haverford will not be accepted for the major.

Allied Subjects: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Miss Cazeaux, Mme. Jambor, Mr. Goodale, Mr. Jerome.

A comprehensive survey, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *Romantic Music:* Miss Cazeaux, Mr. Jerome.

A historical treatment of the music of the age with particular attention to certain representative composers.

202. *Advanced Theory and Analysis:* Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203a. *Bach:* Mme. Jambor.
Prerequisite: Music 101 or its equivalent.

203b. *The Classical Period:* Mme. Jambor.
Prerequisite: Music 101 or its equivalent.

205a. *Musical Criticism:* Miss Cazeaux.
Prerequisite: Music 101.

[301a. *Music of the Twentieth Century:* Mr. Goodale.]
A survey of the music of the period and concentrated analysis of key works. Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently.

301b. *Opera and Music Drama:* Miss Cazeaux.
The evolution of opera from its origins to the twentieth century. Prerequisites: Music 101 and 102 or their equivalents.

[302a. *Medieval and Early Renaissance Music:* Miss Cazeaux.]
The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternates with Music 301a.

[302b. *Late Renaissance and Baroque Music:* Miss Cazeaux.]
The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101, 102 or their equivalents. Alternates with Music 301b.

[303b. *Orchestration:* Mr. Goodale.]
Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304b. *Interpretation of Music:* Mme. Jambor.
Interpretation of instrumental music of various ages. Members of the class will be invited to participate by performing. Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition:* Mr. Goodale.
This course is designed for those students whose chief interest lies

in the field of composition. It may be taken only with the permission of the instructor.

Sight-singing and Dictation: Mr. Jerome.

This course receives no academic credit. It meets twice a week and is required of music majors. It is open to other interested students.

Senior Conferences: Three conferences dealing with some aspects of the theory and history of music. Students may substitute for one of these a conference in an allied subject. Candidates' understanding of the material may be tested by written assignments, oral reports or other appropriate means.

Honors Work: Honors work is offered for students recommended by the Department.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Bryn Mawr College Chorus combines with the Haverford College Glee Club both in rehearsals and in the presentation of programs. Several major choral works from different musical periods are offered in concerts during the course of the year.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense. Lessons in other instruments may be arranged. The Department will be glad to assist in these arrangements.

Philosophy

Professors: Milton Charles Nahm, B. LITT., PH.D., *Chairman*
José Maria Ferrater Mora, *Lic. F.L.*
George L. Kline, PH.D.[1]
Jean A. Potter, PH.D.
Isabel Scribner Stearns, PH.D.

Associate Professor and Dean: Mary Patterson McPherson, PH.D.

Assistant Professor: Michael Krausz, PH.D.

Lecturer: George E. Weaver, Jr., M.A.

Assistants: Donald Duclow, M.A.
Thomas Palmeri, M.A.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The courses in Greek Philosophy and Modern Philosophy provide the major students with a common background, training and language.

Further study offers additional historical perspective, as well as insight into methodology and systematization. Training in the techniques of logic is afforded, and such studies as Ethics, Aesthetics and Philosophy of Science show the relations of Philosophy to art, religion, science and mathematics. The advanced student brings the information and techniques that she has acquired to bear on new areas of Philosophy and on philosophical problems of current interest. Opportunity for independent work is provided within or in conjunction with several such advanced courses.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

Requirements in the Major Subject: Students majoring in Philosophy acquire the necessary historical background by taking the semester courses in Greek and Modern Philosophy and by electing one of the following: either study of two major thinkers in different historical

1. On leave, 1970-71.

periods (Plato or Aristotle and Kant or Hegel) or study of one major figure and either Medieval Philosophy or Nineteenth-Century German Philosophy. The systematic requirement is met by the semester course in Logic and by any two of the following semester courses: Ethics, Aesthetics, Philosophy of Religion, Philosophy of Science. One semester of advanced work is to be chosen from the 300 level courses. In addition to these eight semester courses the Senior Conference is required. (Note that 300 courses followed by the letter "d" are given for six weeks only. To receive credit for a semester's work, either two such courses must be taken or one such course followed by six weeks of independent work approved by the Department.)

Allied Subjects: Biology, Chemistry, Economics, English, History, History of Art, Mathematics, Music, Physics, Political Science, Psychology, classical and modern literatures, and certain courses in Anthropology, History of Religion and Sociology.

101a. *Greek Philosophy:* Members of the Department.

A study of the origins and development of philosophic thought in Ancient Greece, with particular emphasis on the major works of Plato and Aristotle. The course will be repeated in the second semester as 101b.

201a. *Modern Philosophy:* Members of the Department.

A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a. The course will be repeated in the second semester as 201b.

202a. *Plato:* Miss Stearns.

A detailed study of some of Plato's later dialogues.

[203b. *Aristotle.*]

210b. *Medieval Philosophy:* Miss Potter.

The history and development of Medieval Philosophy from its origins in classical and Patristic thought through the fourteenth century.

215a. *Kant:* Mr. Ferrater Mora.

A close examination of some central themes in the *Critique of Pure Reason.*

[216a. *Hegel.*]

[217b. *Nineteenth Century German Philosophy.*]

250a. *Logic:* Mr. Weaver.
An introduction to modern mathematical logic, with emphasis on both the semantic and the combinatorial aspects of reasoning.

260b. *Ethics:* Mr. Krausz.
A close study of major ethical texts, with attention to such problems as freedom, responsibility, principles of moral decision and questions of good and right.

261a. *Aesthetics:* Mr. Nahm.
Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism. Permission of the instructor required.

262a. *Philosophy of Religion:* Miss Potter.
The existence and nature of God and the character of religious language. Prerequisite: Philosophy 201 or permission of the instructor.

264b. *Philosophy of Science:* Mr. Weaver.
A survey of some issues in the conceptual foundations of modern science and mathematics, with particular emphasis on the applications of mathematics to empirical sciences. Prerequisite: Philosophy 250a.

301b. *Recent Metaphysics:* Miss Stearns.
The metaphysics of Mead, Bergson, Whitehead and related thinkers. This course may be taken to meet the major requirement in systematic Philosophy.

[302b. *Philosophy of Criticism.*]

[303b. *Philosophy of History.*]

[304a. *Russian Philosophy.*]

305b. *Contemporary Philosophy: Analytic:* Mr. Ferrater Mora.
The linguistic turn in contemporary Philosophy from Moore and Russell to the present.

[306b. *Contemporary Philosophy: Existential.*]

[307a. *Texts in Medieval Philosophy.*]

[309a. *The Concept of Time.*]

310b. *Advanced Logic:* Mr. Weaver.

Investigation of those results bridging the semantic and combinatorial aspects of first order reasoning, with particular emphasis on the generalizations of these results to richer natural language discourses. Prerequisite: Philosophy 250a.

311a. *Philosophy of Social Science:* Mr. Krausz.

A study of human action in terms of reduction, predictability, functionalism, and objectivity.

Note: The following courses are of six weeks' duration and carry one-fourth unit of credit. To receive credit toward the degree or to meet the requirement for the major in Philosophy, the student must either pursue independent work for the second half of the semester under the direction of the instructor or elect a second such course.

350d. *Problems in the Philosophy of Language:* Mr. Ferrater Mora (September-October).

Language as an activity: language games, speech acts, types of linguistic action, with particular reference to Wittgenstein and Austin.

352d. *Plato's Republic:* Mr. Nahm (February-March).

An intensive study of Plato's *Republic,* with particular emphasis on dialectic as illustrated in the structure of the dialogue.

Senior Conference: The Senior Conference is in two parts. Part I is a seminar combined with tutorial sessions which runs throughout the year. The seminar emphasizes critical thinking on a central philosophic issue. For Part II each senior selects from an approved list one major philosophic work on which she wishes to be examined at the end of the first semester. The examination may be either written or oral at her option.

Honors Work: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of Philosophy or emphasizing the connection of Philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

Professors: Rosalie C. Hoyt, PH.D., *Chairman*
Walter C. Michels, PH.D.
John R. Pruett, PH.D.

Assistant Professor: John R. Olson, PH.D.[1]

Lecturer: Alfonso M. Albano, PH.D.

Assistants: Patricia Mooney, M.A.
Ronald Jones, B.S.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

Requirements in the Major Subject: Physics 101, 201a, 202b, and at least one and one-half units of advanced work, to be chosen from 301a, 303b, 304, 305c; Senior Conferences in Unified Classical Physics and in Atomic and Nuclear Physics; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

Allied Subjects: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics:* Miss Hoyt, Mr. Michels.
A study of the principal phenomena of classical and modern physics in the light of the developments of the past seventy years. Three lectures and three hours laboratory a week.

1. On leave, 1970-71.

201a. *Electricity and Magnetism:* Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours laboratory a week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics:* Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours laboratory a week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics:* Mr. Albano.

Newtonian mechanics of particles and of rigid bodies, special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenomena; introduction to digital computer usage. Three lectures and four hours laboratory a week. Prerequisites: Physics 201a, 202b, Mathematics 201.

303b. *Thermal Properties of Matter:* Mr. Albano.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory a week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics:* Miss Hoyt.

The application of generalized mechanics to coupled systems and continuous media; electric, magnetic, and electromagnetic fields; radiation. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four hours a week. Prerequisites: Physics 201a, 202b and 301a (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a.

305c. *Electronics:* Members of the Department.

Principles of solid state electronic devices and their applications to digital and analog computers and to other instruments. Four hours laboratory a week. Prerequisite: Physics 201a (may be taken concurrently).

Senior Conferences

Semester I: Unified Classical Physics: Mr. Michels.

A general coverage of classical physics (including relativity and classical quantum theory) from a more mature point of view than is possible in earlier courses. The subject matter covered in Physics 201a, 202b, 301a and 303b is integrated and extended. Two hours of discussion a week.

Semester II: Atomic and Nuclear Structure: Miss Hoyt.

Development of quantum theory and wave mechanics with applications to atomic structure and spectroscopy. Nuclear structure models and reactions. Fundamental particles. Two hours of discussion a week.

Work in these conferences will be tested in part by examinations to be given during the academic year.

Honors Work: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Gertrude C. K. Leighton, A.B., LL.B., *Chairman*[1]
Melville T. Kennedy, Jr., PH.D.[2]

President of the College: Harris L. Wofford, Jr., A.B., LL.B.

Associate Professor: Charles E. Frye, PH.D.

Assistant Professors: Marc H. Ross, PH.D.
Stephen Salkever, PH.D.

Lecturers: Christine Philpot Clark, A.B., LL.B.
William E. Steslicke, PH.D.

Visiting Lecturer: Paul Sigmund, PH.D.

The major in Political Science is concerned with study of normative and empirical theories of government and with analysis of the structures and processes of modern political communities.

1. On leave, Semester II.
2. On leave, 1970-71.

Requirements in the Major Subject: Students majoring in Political Science must take a minimum of four units of course work and the Senior Conference in the major and two units in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen from among the following: 201a, 203a, 204b, 205a, 206b, 207b, 208b, 209b. Students who are not majors in the Department may meet this prerequisite in the same way, or alternatively by completing one-half unit of allied work and one-half unit in Political Science chosen from the list of courses above.

The fields of the major, from which two must be selected for special concentration, are: Political Philosophy and Theory; Politics and Law in American Society; Comparative Politics; International Politics and Law. At least three courses (one and one-half units of work), including a minimum of one advanced course, must be taken in each of the fields selected. For courses arranged according to fields, see page 125. With the permission of the Department one of the fields may be taken in an allied subject.

Non-majors wishing to take a special field in Political Science must consult the chairman for approval of course plans in order to qualify for the required senior conference program. See page 124.

With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

Allied Subjects: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

201a. *American National Politics:* Mr. Ross, Mr. Salkever.

An examination of politics in the United States today. The focus is upon American values, the manner in which they are perpetuated, the institutions they support, the ways in which they do or do not facilitate political change, and the role they play in the organization and management of political and social conflicts.

203a. *Government and Politics in East Asia:* Mr. Steslicke.

A comparative examination of East Asian political systems with special emphasis on modern Japanese government and politics.

[204b. *Communism and Nationalism in Asia:* Mr. Kennedy.]

205a. *Government and Politics in Western Europe:* Mr. Frye.
A comparative analysis of the contemporary political systems of Great Britain, France and Scandinavia, with special reference to factors making for stable and effective democracy.

[205b. *East Asian Foreign Policies:* Mr. Steslicke.]

206b. *Political Analysis:* Mr. Steslicke.
A survey of political science as an academic discipline and an overview of basic questions, problems and methods of analysis.

207b. *Government and Politics in Western Europe:* Mr. Frye.
A comparative analysis of the contemporary political systems of Germany, Italy, and the Soviet Union.

[208b. *Introduction to Latin America.*]

209b. *Western Political Philosophy:* Mr. Salkever.
A study of the fundamental problems of Western political thought. The writings of selected ancient and modern philosophers will be examined.

210a. *The Soviet System:* Mr. Hunter (Haverford).
(INT.) See Interdepartmental Course 210a, page 139.

[212a. *Western Political Thought: Ancient and Medieval.*]

218a. *Urban Politics:* Mr. Ross.
This course is concerned, in a cross-cultural framework, with the factors leading to the rise of cities, an examination of the diverse groups which comprise urban populations, the various forms of political organization found in urban areas, and the political and social problems of the city in contemporary society. Material will be drawn from cities in Africa, Asia and Latin America, as well as the Western European and American experience.

[219b. *American Constitutional Law:* Miss Leighton.]
An analysis of some of the basic principles and processes of American public law. Attention will be centered on decisions and opinions of the Supreme Court as they relate to the formation of public policy and to the value patterns of American liberal democracy.

221a. *International Law:* Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

230b. *Political Behavior:* Mr. Ross.

The focus of this course is on the individual in politics. Several different approaches to the study of political behavior will be considered. Among the areas studied will be political socialization, role theory, political personality, public opinion and political behavior, and theories of political change.

231a. *Recent Political Philosophy: Sources and Varieties:* Mr. Salkever.

An examination of alternative ways of formulating and answering basic questions in twentieth century political philosophy. The course will begin with an analysis of the nineteenth century background, concentrating on the work of Marx and Mill. Attention will then be given to such issues as the value of liberty, the justification of democracy, and the articulation of personal autonomy and political obligation discussed by modern authors—Dewey, Niebuhr, Ortega, Oakeshott, Wolff, Camus, Arendt and Strauss.

232b.* *Law and Education:* Mr. Wofford.

An exploration of the principle of persuasion in the United States Constitution and common law, with special attention to the educational implications of the First Amendment and to the theory and practice—uses and abuses—of civil disobedience. Readings will include legal cases and commentaries, as well as some basic literature of political theory.

233b. *Law and Poverty:* Mrs. Clark.

An analysis of legal approaches to solutions for the problems of poverty. Open to students who have taken: Political Science 218a, 219b or 301a.

301a. *Law and Society:* Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, property and government are discussed.

[302b. *Law, Policy and Personality:* Miss Leighton.]

Selected topics in the study of the relation between the legal process

and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken: Political Science 219b, 301a, or 313b, or with the permission of the instructor.

[303a. *Problems in International Politics:* Mr. Kennedy.]

303b. *Political Leadership in Industrialized Societies:* Mr. Steslicke.
A comparative examination of political leadership in industrialized societies and a critical survey of the more recent scholarly literature dealing with political leadership and public policy (special emphasis will be placed upon problems of political leadership in the United States, Great Britain and Japan).

[304b. *West European Integration:* Mr. Frye.]

307b. *Modern Germany:* Mr. Frye.
An analysis of the political, social and economic forces that have shaped the evolution of Germany since 1870 with particular reference to the periods of Weimar and Bonn.

[308a. *American Political Theory.*]

[309b. *Selected Topics in Modern Political Thought:* Mr. Frye.]

310a. *Problems in Comparative Politics:* Mr. Frye.
Analysis of different approaches to the systematic study of politics and their application to selected problems in comparative politics including modernization.

311b. *Theory and Practice in Political Philosophy:* Mr. Salkever.
An examination of the relationship between speculative theory and practical (normative) principles. Readings will be drawn from three broad philosophic traditions: empiricist (Locke and Hume), historicist-existentialist (Marx, Nietzsche, Bergson) and classical (Plato and Aristotle). Open to students who have taken: Political Science 209b, or either Philosophy 101 or 201.

[313b. *Problems in Constitutional Law.*]

[315b. *American Bureaucracy.*]

316b. *Urban Affairs:* Mr. Ross.
Selected topics.

320a. *Political Modernization in Britain and Japan:* Mr. Steslicke.

A critical examination of the concept of "political modernization" and a survey of the relevant scholarly literature with particular reference to the experience of Britain and Japan during the past century.

321a. *Latin American Affairs:* Mr. Sigmund.

Advanced instruction on political topics pertaining to individual Latin American countries. Independent research will be emphasized.

Courses at Haverford

216a. *African Civilization: Traditions and Transformations:* Mr. Mortimer.

220a. *International Relations:* Mr. Hansen.

223a. *The American Political Process: Parties, the Congress and the President:* Mr. Waldman.

225b. *Comparative Politics: Political Development:* Mr. Glickman.

226b. *International Organization:* Mr. Hansen.

227a. *American Political Theory:* Miss Shumer.

[228b. *Public Opinion, Private Interests and the Political System:* Mr. Waldman.]

229b. *Problems in Contemporary American Political Theory:* Miss Shumer.

252b. *Political Rationality, Political Purpose and Collective Welfare:* Mr. Waldman.

266b. *Politics and International Relations in the Middle East and North Africa:* Mr. Mortimer.

351a. *Comparative Political Sociology:* Mr. Glickman.

Senior Conference: The required senior conference program, for which one unit of credit is given, is designed to synthesize and deepen understanding of the work in the major and in allied subjects. It consists of (a) two colloquia, one offered in each semester, or (b) one colloquium and a senior paper. The colloquia for 1970-71 are:

399a. *Political Stability and Change:* Mr. Steslicke.

399b. *Topics in Ideology and the Philosophy of Social Science:* Mr. Salkever.

A senior who elects the second alternative will normally write the senior paper in the semester other than that in which the colloquium she selects is given. The topic of the paper must be in one of the two fields of concentration (see below) and is supervised by a member of the Department whose specialty is in the same or related fields.

The topics of the colloquia change from year to year. Each colloquium is concluded by a general examination in political science. This examination, though general in nature, is designed to draw on the work of the particular colloquium.

Seniors who have taken a field in an allied subject may offer work in the senior conference of that subject as a part of the political science senior conference. If this alternative is chosen, *one* colloquium in political science is required. Each program must be individually planned and approved by the chairman and by the allied department.

Fields of Concentration

1. *Political Philosophy and Theory*
 Political Analysis
 Western Political Philosophy
 Recent Political Philosophy: Sources and Varieties
 Western Political Thought: Ancient and Medieval
 Political Behavior
 Theory and Practice in Political Philosophy
 Selected Topics in Modern Political Thought
 American Political Theory (Haverford)
 Problems in Contemporary American Political Theory (Haverford)

2. *Politics and Law in American Society*
 American National Politics
 Urban Politics
 Urban Affairs
 Constitutional Law
 Law and Education
 Law and Society
 Law, Policy and Personality
 Law and Poverty
 The American Political Process: Parties, the Congress and the President (Haverford)

Public Opinion, Private Interests and the Political System (Haverford)
Public Policy: Civil Rights and Poverty (Haverford)

3. *Comparative Politics*
Government and Politics in East Asia
Communism and Nationalism in Asia
Government and Politics in Western Europe
Introduction to Latin America
Latin American Affairs
Western European Integration
Problems in Comparative Politics
China and Japan: Problems of Modernization
Political Modernization: Britain and Japan
Political Leadership in Industrialized Societies
The Soviet System (Haverford)
African Civilization: Traditions and Transformations (Haverford)
Comparative Politics: Political Development (Haverford)
Comparative Political Sociology (Haverford)

4. *International Politics and Law*
International Law
Problems in International Politics
East Asian Foreign Policies
International Relations (Haverford)
International Organization (Haverford)
Politics and International Relations in the Middle East and North Africa (Haverford)
(With the consent of the Department, certain comparative courses may be counted in this field.)

Honors Work: Seniors admitted to Honors work prepare an independent research paper (one unit of credit) under the supervision of a member of the Department. Field work is encouraged.

Psychology

Professors: Richard C. Gonzalez, PH.D., *Chairman*
Rachel Dunaway Cox, PH.D.
Howard S. Hoffman, PH.D.

Visiting Professor: Larry Stein, PH.D.

Associate Professor: Matthew Yarczower, PH.D.

Assistant Professors: Clark McCauley, PH.D.
Earl Thomas, PH.D.

Lecturer: Erika R. Behrend, M.A.

Assistants: Janet E. Kilbride, M.S.
John C. Monahan, B.A.
Alan M. Ratner, B.A.

The Department offers to the major student a representative account of methods, theory and findings in Comparative, Experimental, Physiological and Social Psychology. The program of work is planned to encourage the student, in the first two years of study, to sample widely from among the course offerings in these areas, and to permit her, in the final two years, to focus attention (by course work and research) on the one or two areas of her principal interest.

Requirements in the Major Subject: Psychology 101; two courses from each of the following groupings of courses: (a) Psychology 201a, 201b, 202a, 202b; (b) Psychology 205a, 205b, 206a, 207a; (c) Psychology 301a, 305a, 306b, 307a, 308b, 309. The Senior Conference is also required. Psychology 207a is strongly recommended to students preparing for graduate work. Psychology 101 is prerequisite to all other courses offered by the Department with the exception of Psychology 207a and Psychology 205b, either or both of which may, with departmental permission, be taken concurrently with Psychology 101.

Allied Subjects: Anthropology, Biology, Chemistry, Education, Mathematics, Philosophy, Physics, Sociology.

101. *Experimental Psychology:* Mr. Gonzalez, Mr. McCauley, Mr. Thomas, Mr. Yarczower.

The experimental study of behavior and its physiological basis. A survey of methods, facts, and principles: sensation, perception, motiva-

tion, emotion, learning, and thinking. Three hours lecture and four hours laboratory each week.

The following courses include individual laboratory research projects.

201a. *Comparative Psychology:* Mr. Yarczower.
The evolution of behavior: sensory and motor capacities, instinctive activities, motivation, learning, group processes, social behavior.

201b. *Animal Learning:* Mr. Gonzalez.
Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence.

[202a. *Motivation:* Mr. Gonzalez, Mr. Hoffman.]
The activation and regulation of goal-directed behavior: affectional processes, psychological drives, incentives, frustration, conflict, punishment and anxiety.

202b. *Human Conceptual Behavior:* Mr. Yarczower.
Experimental analysis of problem solving, concept formation, thinking and language.

205a. *Social Psychology:* Mr. McCauley.
The psychological study of man in society.

205b. *Psychology of the Normal Personality.*
Survey of the major theories. Developmental, clinical and experimental evidence relating to the "normal" personality.

206a. *Developmental Psychology:* Mrs. Cox.
The development of the child from infancy to physical, intellectual and emotional growth and learning in the family and the school. Three hours lecture each week. Students do laboratory work in centers serving young children. Cooperating centers include the Thorne School, the city agencies for neglected children and nursery schools for disadvantaged children.

207a. *Experimental Methods and Statistics:* Mr. McCauley.
Measurement, descriptive statistics, probability, association, testing of hypotheses, the design of experiments and associated problem exercises.

301a. *Physiological Psychology:* Mr. Thomas.
The physiological and anatomical bases of experience and behavior:

sensory processes and perception, emotion, motivation, learning and cognition.

[305a. *Sensation and Perception.*]

306b. *Psychological Measurement:* Mr. McCauley.
Scale and test construction; evaluation of standardized tests; intelligence and the structure of abilities; trait assessment; educational, vocational and clinical application of tests.

307a. *Social Psychology of Attitudes:* Mr. Perloe (Haverford).

308b. *Psychology of the Abnormal Personality:* Mrs. Cox.
Types and dynamics of abnormal adaptation, methods of investigation and approaches to treatment. Students are placed for two to three hours a week as observers and program assistants in a variety of community agencies serving children or adults with organic or functional disorders.

311a. & b. *Selected Problems in Comparative Psychology:* Members of the Department.

312a. & b. *Selected Problems in Physiological Psychology:* Members of the Department.

313a. & b. *Selected Problems in Experimental Psychology:* Members of the Department.

314a. & b. *Selected Problems in Social Psychology:* Members of the Department.

315a. & b. *Selected Problems in Child and Developmental Psychology:* Members of the Department.

403. *Supervised Research in Psychology:* Members of the Department.
Laboratory or field research under the supervision of a member of the Department.

Senior Conference: Seniors meet throughout the year as a group with individual members of the Department to discuss brief papers on topics assigned at the beginning of the year.

Honors Work: One unit of Honors work may be taken by students nominated by the Department.

Russian

Professor: Frances de Graaff, PH.D., *Chairman*[1]

Associate Professor: Ruth L. Pearce, PH.D., *Acting Chairman*

Assistant Professor: Irene Nagurski, PH.D.

Lecturer: Katherine O'Connor, M.A.

Instructors: Frederick Schulze, M.A.
Helen Segall, B.S.

Professor of Philosophy: George L. Kline, PH.D.[2]

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory.

Requirements in the Major Subject: Russian 001, 101, 200, 201, one advanced course and the Senior Conference. Also Russian 203 or History 244 (History of Russia) or Economics 210a. If a student offers Russian for entrance, Russian 203 or History 244 may be substituted.

Allied Subjects: Economics 210a, History 244 (strongly recommended), 301; any language or literature, History of Art, Music, Philosophy.

001. *Elementary Russian:* Mrs. Pearce, Mr. Schulze, Miss de Graaff.
The basic grammar is learned with enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian:* Mrs. Pearce, Miss Nagurski.
Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language:* Mrs. Segall.

1. On leave, semester I, 1970-71.
2. On leave, 1970-71.

201. *Readings in Russian Literature:* Miss Nagurski.
Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian.*]
Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

[203.* *Russian Literature in Translation:* Miss Nagurski.]
The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment,* Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. *Russian Poetry of the Nineteenth Century:* Miss de Graaff.]

302. *Pushkin and His Time:* Mrs. O'Connor, Miss de Graaff.

[303. *Russian Literature of the Twentieth Century:* Miss de Graaff.]

[304. *Social Trends in Nineteenth-Century Russian Literature:* Miss de Graaff.]

Senior Conference: On a period of literature not covered by the current courses. The work at this conference will be evaluated by one examination in the Russian language (to be given at the beginning of the second semester) and one in Russian literature.

Honors Work: Honors work is offered to students recommended by the Department.

Sociology

Professor: Eugene V. Schneider, PH.D., *Chairman*

Assistant Professor: Judith R. Porter, PH.D.

Visiting Lecturer: Kate Millett, PH.D.

Lecturers: Jo-Anne Thomas, M.A.T.
Martin Wenglinsky, PH.D.

Assistant: Anne Beuf, A.B.

Assistant Professors of Social Work and Social Research:
Sally Hollingsworth, M.S.S.
Dolores Norton, M.S.S., PH.D.

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College.

Requirements for the Major Subject: 102a & b, a course in methods or theory and additional work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. A total of three and one-half units of course work is required in addition to the Senior Conference.

Allied Subjects: Anthropology, Economics, Social Psychology, Political Science, History, Mathematics.

102a. *Introduction to Sociology:* Mrs. Porter.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Emphasis will be placed on culture, social system, personality, and their interrelationships. Concrete applications of sociological analysis will be examined.

102b. *American Social Structure:* Mr. Schneider.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

202a. *Social Welfare and the Individual and His Environment:* Mrs. Norton.

This course will examine the effect of various physical, economic, cultural and racial environments on the development of the individual. It will then explore the social work and social welfare approaches that evolved to meet these varieties of human behavior. The class will be asked to help develop more effective plans of social welfare to meet present day societal needs.

202b.* *Social Problems and Social Work Practice:* Mrs. Hollingsworth.

Social breakdown and its impact on the individual, with particular reference to the interaction between the individual and the community in which he lives. Various methods of social work intervention will be examined; a variety of therapeutic approaches to individuals and small groups; community organization and social planning. Problems studied will include: health, housing, education, racism, poverty and income maintenance, deprivation and community mental health.

205b. *Social Stratification:* Mr. Schneider.

Examination of theoretical and methodological problems in the field of stratification, with special reference to the relationship of class structure to the culture and to personality systems.

207a. *Race Relations:* Mrs. Porter.

An examination of theories of prejudice and attitude change. The structure of the minority community and its relationship to the majority group will be discussed, with major emphasis placed on Negro-white relations in the United States. Prerequisite: Sociology 102a or consent of instructor.

208b. *Personality and Social Structure:* Mr. Schneider.

An analysis of the relationships between personality, both deviant and non-deviant, and major elements of the social structure and culture. Several theories linking personality, social structure and culture will be considered.

209b. *Sociology of Religion:* Mrs. Porter.

Analysis of the interrelationship between religion and society, draw-

ing upon the works of major social theorists. Emphasis will be placed on the connection between religious systems and secular culture and social structure, including the role of religion in social change, secular values and personality systems. Prerequisite: Sociology 102a or consent of instructor.

212b. *Sociology of Poverty:* Mrs. Porter.

An analysis of the causes and effects of poverty in the United States. Issues covered will include the culture of poverty, the effects of poverty on institutions like the family, and the government poverty programs. Prerequisite: Sociology 102a.

215a.* *Field Work in Urban Studies:* Miss Thomas.
& b. A multi-disciplinary approach to the urban situation as it is manifested through the public school system. Approximately three hours per week are dedicated to individual in-school instruction with Junior High School students. A weekly seminar includes several outside discussions and offers varying perspectives on the problems involved.

220a. *Political Sociology:* Mr. Wenglinsky.

A study of the major elements in and affecting the official processes for societal decision-making in industrial society, with special attention to the problems of developing and maintaining a democratic system.

222b. *Sociology of Literature:* Mr. Wenglinsky.

Literature as a social experience, a social product and an indicator of societal processes. Topics will include the relation of genres to societal characteristics; sociology of literary circles and the literary life; literature as a form of knowledge; literature and politics; literature (and films) in an industrialized and rationalized society.

227b. *Sociology of Occupations and Professions:* Mr. Wenglinsky.

A study of the dominant public responsibilities taken on by individuals, and the kinds and qualities of lives implied by these occupations. Topics will include bureaucratic, self-administered, professionalized and disreputable occupations and their relation to the educational and stratification systems and to such concepts as authenticity and alienation.

235a. *An Historical and Social Survey of the Role of Women:* Miss Millet.

This course will deal with the various roles that women have played in American society in the past and present. The psychological results

of these roles on feminine personality will be traced. Attention will be directed at various forms of female protest movements.

302a. *Social Theory:* Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers. Among the writers examined are Marx, Weber, Durkheim, Freud, Pareto, Marcuse, Parsons.

Courses at Haverford

The following is a selection of the courses offered at Haverford. Majors in Sociology who wish to enroll in courses other than those listed here should consult with the Department of Sociology at Bryn Mawr.

153. *Elementary Quantitative Methods.*

159a. *The Sociology of the Family:* Mr. Hohenstein.

251a. *Sociology of Crime:* Mr. Hohenstein.

253a. *Sociology of Small Groups:* Mr. Hare.

257a. *Dynamics of Non-Violence:* Mr. Hare.

354b. *Sociology of Knowledge:* Mr. Hohenstein.

357a. *Social Anthropology:* Mr. MacGaffey.

Senior Conference: The form and evaluation of the conference will be determined in consultation with the senior majors.

Honors Work: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

Spanish

Professors: Willard Fahrenkamp King, PH.D., *Chairman*

Joaquín González Muela, *D. en F.L.*

Associate Professor: Phyllis Turnbull, *D. en F.L.*

Assistant Professor: Eleanor Krane Paucker, PH.D.

Professor of Philosophy: José María Ferrater Mora, *Lic. F.L.*

The major in Spanish offers work in both language and the literature of all centuries, with emphasis on those periods when Spain and Spanish America have made their maximum contributions to Western culture. It includes a two-year history of Spanish literature, followed by specialized advanced courses dealing more intensively with individual authors or periods of special interest. Students may take an advanced course at Haverford if it contributes significantly to their special program. In certain cases, with the approval of the Department and the Dean of the Graduate School, advanced students may also take one graduate course.

One course is devoted to training in written and spoken Spanish. It is recommended that students supplement their course work by spending the junior year in Spain or Spanish America, studying in the summer at the *Centro* in Madrid, or living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 001 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: The normal course sequence in the major is 101a, 101b, 201a, 201b, 202a, 202b, at least four semesters of advanced courses and the Senior Conference. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a and 202b. First-year students of literature may find it advisable to begin their study with 101a or 202a.

Allied Subjects: Any other language or literature, Anthropology, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology.

001. *Elementary Spanish:* Mrs. Paucker, Miss Turnbull.
Grammar, composition, oral and aural training, readings on the Spanish and Spanish-American background.

003. *Intermediate Spanish:* Mr. González Muela.
Intensive grammar reviews, exercises in composition and conversation, selected readings from modern Spanish texts.

101a. & b. *Modern Hispanic Literature (from 1700 to the present):* Mrs. King.
The development of Spanish literature during the eighteenth, nineteenth and twentieth centuries; special attention is given to the literature of social criticism, the Generation of 1898 and the contemporary Spanish American novel. Oral expression and practice in writing are emphasized.

[201a. & b. *Spanish Literature from the Poema del Cid to 1700:* Mrs. King.]
Medieval, Renaissance and Baroque literature; special attention is given to the picaresque novel, mystical poetry, the development of the *comedia nueva* and the work of Cervantes.

202a. & b. *Spanish Readings and Composition:* Miss Turnbull.
Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation, and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

203a. *Spanish American Literature—The Political and Social Revolution:* Mrs. Paucker.
The development of social and national consciousness in prose writers from Sarmiento to the present.

203b. *Spanish American Literature—The Literary Revolution:* Mrs. Paucker.
Poetry and prose from the Modernismo to the present; special attention is given to Rubén Darío, Neruda, Borges and Cortázar.

[302a. *Medieval Spanish Literature:* Miss Turnbull.]
The Castilian epic, lyric poetry and narrative prose from the Poema del Cid to Jorge Manrique.

[303a. *The Modern Novel in Spain:* Mrs. King.]
The development of the Spanish narrative from the Generation of

1898 to the present; special attention is given to Unamuno, Miró, Cela and Goytisolo.

[303b. *Modern Spanish Poetry:* Mr. González Muela.]

Spanish poetry from Modernismo to the present: Machado, Jiménez, García Lorca, Hierro and others.

304a.* *Drama of the Golden Age:* Mrs. King.

Baroque structure and Counter-Reform thought in representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

304b. *Cervantes:* Mrs. King.

The development of Cervantes' art and thought, with major emphasis on *Don Quixote.*

Senior Conferences:

1. In the first semester a senior seminar, meeting once a week and devoted to study of a special topic in Spanish literature chosen by the students, to be evaluated by a written examination in January or February.
2. In the second semester individual conferences between each student and her instructor designed to aid the student in the preparation of a paper on an author or theme, chosen by the student, as seen in the context of a whole period in Spanish literature and history. At the end of the semester each student has a brief oral examination in Spanish consisting of the explanation and interpretation of a Spanish text and serving, along with the papers, as the method of evaluation of this conference.

Honors Work: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Courses

The following courses are given by two or more departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them. Also listed are courses in a single discipline, such as Linguistics, which are of special importance to several departments.

210a. *The Soviet System:* Mr. Hunter (Haverford).

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisite: two semester courses in Economics, Political Science or History. Offered in alternate years.

[220c. *Introduction to Automatic Computation:* Mr. Snyder and members of several departments.]

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory a week. Prerequisite: Mathematics 101 or the equivalent.

308. *Introduction to Linguistics:* Miss Dorian.

Language in the social context: human versus animal communication; childhood language acquisition; bilingualism; regional dialects; usage and the issue of "correctness"; social dialects; speech behavior in other cultures.

[310. *Introduction to Linguistic Techniques:* Miss Dorian.]

Introduction to techniques of linguistic analysis: typology, phonetics, phonemics, morphemics, syntax; generative grammar; historical and comparative linguistics; writing systems and literacy.

[312b. *Field Methods in Linguistics:* Miss Dorian.]

Practical experience in transcription and analysis of an unfamiliar language. There will be an informant, and students will be able to develop their own methodology for approaching a language with which they have no previous experience.

314. *History of Science:* Mr. Culotta.

Historical changes in the concept "science" are examined. Emphasis is placed on the history of man's ideas about himself and the universe. The first semester covers the development of science from antiquity to the seventeenth century. The second semester continues into the twentieth century by developing select topics and their philosophical and social impact. With permission, students may elect one semester only.

353. *Biochemistry:* Mr. Conner, Mr. Prescott, Mr. Young.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. The first semester deals primarily with DNA, RNA and protein structure and function, biological catalysis and enzyme kinetics. The second semester stresses intermediary metabolism and biochemical regulatory mechanisms. Lectures three hours, laboratory six hours a week. Prerequisites: Chemistry 202, Biology 301b; one or both of these prerequisites may be waived by permission of the Department of Biology. Physics 101 and Mathematics 101 are recommended.

Fine Art

Associate Professor: Fritz Janschka, *Akad. Maler*

The program is coordinated with, and complementary to, the Fine Arts program of Haverford College (see the Haverford College Bulletin). Courses are offered to both Bryn Mawr and Haverford students who are approved by the instructor.

110. *Free Studio:* Mr. Janschka.

Available two hours a week: (1) to all students, without credit; (2) with permission of the instructor a student may elect studio work on a pass-fail basis to appear on her transcript without credit; (3) with permission of the instructor students with previous experience may elect studio work for credit.

115. *Graphic Arts:* Mr. Janschka.

An introductory course in relief and intaglio print-making. Prerequisites: History of Art 101, a pass grade in Fine Art 110, Haverford Fine Arts 101, or proof of adequate previous training in drawing.

225. *Advanced Drawing:* Mr. Janschka.

An advanced course in drawing as an independent art-form. Prerequisites: Fine Art 115, Haverford Fine Arts 231 or 241, or proof of adequately advanced previous training.

Performing Arts

101a. *Modern Dance: Techniques and Choreography.*

Prerequisite: one year of Dance at Bryn Mawr or approval of the instructor.

403. *Voice* or *Instrument.*

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the Department of Music offer for one unit of academic credit a year of voice or instrument lessons. The unit will include the lessons and also a recital or proficiency test arranged by the Music Department.

Physical Education

Director: Anne Lee Delano, M.A.

Instructors: Jan Eklund Fisher, M.ED.
Pamela B. Kerr, B.S.
Barbara Lember, B.F.A.
Ann Carter Mason, B.S.
Mary L. O'Toole, M.S.
Janet A. Yeager

The Department of Physical Education has developed a program to:

1. Recognize the student with a high degree of neuromuscular coordination and physical stamina, and encourage her to maintain this status.

2. Provide incentive for students of lower levels of neuromuscular coordination and physical stamina to improve to a higher, more recognized standard.

Through a combination of tests, a student's physical education profile score (P.E.P.) can be determined. On the basis of her score each student will be advised to what extent she has satisfied the freshman (or sophomore) requirement. She may have no required activity her freshman year or she may have to fulfill the usual first-year requirement. Any freshman may request a re-test at the end of semester I. In the sophomore year a student is required to take Physical Education unless she requests and passes the test.

Students of high-level profile scores may elect any activity offered by the Department, including the specialized units in Dance Orientation, Sports Orientation and Relaxation. Students with high-level scores who do not participate in any activity may miss the opportunity for recreation and relaxation and risk the lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance or they may be free to elect sports activities. They will also be required to take two of the three specialized units mentioned above. Two hours of an activity plus a one hour specialized unit will be taken each week during the first semester and two hours per week thereafter.

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Aptitude and Achievement Battery (performance skill)
 a. Standing broad jump b. Sand bag throw c. Obstacle course
2. Fitness Battery (strength and endurance)
 a. Standing broad jump c. Push-ups—modified
 b. Sit-ups d. 12-minute run
3. Body weight control
4. Swim test (for survival)
 a. Jump into deep end of pool (feet first entry), tread water one minute, back float motionless for two minutes, demonstrate two strokes while swimming lengths of pool for ten minutes without stopping, resting or touching bottom or sides of pool.
 b. The swimming test is administered to every new student at the beginning of the year unless she is excused by the College Physician.
 c. Students *unable* to pass the test must register for beginning swimming.

All students must complete the freshman and sophomore requirements satisfactorily. Upperclassmen are invited to elect any of the activities offered. Transfer students will have their physical education requirement reviewed by the Director of Physical Education.

Seasonal offerings

Fall: archery, fencing, golf, hockey, jogging, modern dance, riding,* soccer, swimming, tennis, volleyball and American Red Cross Senior Life Saving Course. *Winter:* badminton, basketball, diving, exercise therapy, fencing, folk dance, modern dance, physical fitness, riding,* skating,* swimming, tumbling and trampoline and American Red Cross Water Safety Instructor Training Course. *Spring:* archery, golf, lacrosse, riding,* swimming, tennis and American Red Cross Senior Life Saving.

A Modern Dance Club and Varsity teams are open to students with special interests in those areas.

* Open only to Sophomores with permission of the Department, and to Freshmen who have satisfied the requirements.

Financial Aid

The scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

Three outstanding scholarship programs have been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. Several large corporations sponsor scholarship programs for children of employees. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately $1550. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. Bryn Mawr College participates in the College Scholarship Service of the College Entrance Examination Board. Participants in the Service subscribe to the principle that the amount of aid granted a student should be based upon financial need. The Service assists colleges and other agencies in determining the student's need for financial assistance. All applicants must submit in support of application for financial aid the form entitled Parents' Confidential Statement which is prepared by the Service. When the total amount of aid needed has been determined, awards are made in the form of scholarships and loans (see page 167). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 170.

Scholarships are available to entering students, to students who have completed one or more years of study in the College and to students transferring from two-year institutions. Students entering on transfer from four-year colleges in the United States are eligible for scholarship aid only after the completion of one year of study at Bryn Mawr, but are eligible for loan assistance at entrance.

Applications for Financial Aid Available at Entrance

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 1* of the student's final year in high school in the case of regular applicants, and *no later than October 1* in the case of applicants under the Early Decision Plan.

The fact that a student has applied for financial assistance is not taken into consideration in evaluating the candidate's application for admission to the College.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult with their school counselors about national and local scholarships which may be available.

Undergraduate Scholarships

The renewal like the award of the scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed applications must be returned to the Scholarship Office of the College by January 8. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarship Funds

The Mary L. Jobe Akeley Scholarship Fund was established by bequest of Mary L. Jobe Akeley. The income from this fund of $146,375 is to be used for undergraduate scholarships with preference being given to students from Ohio. (1968)

Alumnae Regional Scholarships are available to students in all parts of the United States and Canada. These scholarships, raised by alumnae, vary in amount but may cover full fees for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Alumnae Bequest Scholarship Fund, now totaling $7,196, was established by bequests received for scholarships from alumnae of the College. (1965)

The Marion Louise Ament Scholarship Fund, now totaling $73,414, was established by bequest of Berkley Neustadt in honor of his daughter, Marion Louise Ament of the Class of 1944. The income is to be used for scholarships. (1967)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of $10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Edith Heyward Ashley and Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. In 1969, the fund was increased by $25,000 by bequest of Edith Heyward Ashley of the Class of 1905. The fund now totals $50,000 and the income is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

Note: *The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.*

The Elizabeth Congdon Barron Scholarship Fund. In 1960, by Mrs. Barron's bequest of $2,500, the Elizabeth Congdon Barron Fund was established "for the general purposes of the College." Through gifts from her husband, Alexander J. Barron, the fund was increased to $25,000 and the Elizabeth Congdon Barron Scholarship Fund was established. Through further gifts from Mr. Barron, the endowment has been raised to $55,000. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to $50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to $30,855. (1947)

The Mariam Coffin Canaday Scholarship Fund was established by a gift of $18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this fund was capitalized until in 1969 the fund reached the amount of $25,000. The income henceforth is to provide scholarships with preference given to students from Toledo, Ohio, or from District VI of the Alumnae Association. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of $30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling $13,441, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962, the fund was increased from $7,405 to $13,441 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling $3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of $115,494 is to be used for the residence fees of students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

The Augusta D. Childs Scholarship Fund was established by bequest of $35,000 from the estate of Augusta D. Childs. The income is to be used for undergraduate scholarships. (1970)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of $5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of $12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The 1967 College Bowl Scholarship Fund of $16,000 was established by the Bryn Mawr College team from its winnings on the General Electric College Bowl Television Program. The scholarship grants were donated by the General Electric Company and by Seventeen Magazine and supplemented by gifts from the Directors of the College. The members of the team were Ashley Doherty (1971), Ruth Gais (1968), Robin Johnson (1969) and Diane Ostheim (1969). Income from this fund will be awarded to an entering freshman in need of assistance. (1967)

The Julia Cope Collins Scholarship was established by bequest of $10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling $76,587, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to $10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of $31,656 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The Rebecca Taylor Mattson Darlington Memorial Scholarship Fund was established by members of her family in memory of Rebecca Taylor Mattson Darlington, Class of 1896. The income is to be used for undergraduate scholarships. (1967)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of $2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to $12,713, was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles Bennett Brown of the Class of 1930. Preference is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of $29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fohs and F. Julius Fohs Perpetual Scholarship Fund was established by a gift of $75,000 from the Fohs Foundation. The income only is to be used. (1965)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of $35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Edgar M. Funkhouser Memorial Scholarship Fund of $30,000 was established from his estate by Anne Funkhouser Francis of the Class of 1933. Awards may vary in amount up to full tuition and be tenable for four years. Income from this fund may be awarded annually, first preference being given to residents of southwest Virginia; thereafter to students from District IV eligible for aid in any undergraduate year. (1964)

The Helen Hartman Gemmill Scholarship, value $500, given for the year 1970-71, is awarded to a student majoring in English from funds provided by the Warwick Foundation. (1967)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, tenable for four years, may be as high as $2,000 a year, depending upon demonstrated need. The award is made "on the basis of secondary school records and reports, as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of $2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value $1,000, given for the year 1969-70, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship was given in memory of Katharine Houghton Hepburn of the Class of 1900. The income on this fund, now totalling $9,153, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of $5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. The income from this fund has been supplemented by gifts from Mrs. John H. Hislop. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of $10,056 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund of $10,224 is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of $10,180 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to $1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of $10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Lillia Babbitt Hyde Scholarship Fund was established by gifts of $25,600 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for award in so far as possible to students whose major subject will lead to a medical education or a scientific education in chemistry. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of $246,776 under the will of Jennie E. Ireson, her daughter. The income on each $5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of $10,195 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Alice Lovell Kellogg Fund was founded by a bequest of $5,000 by Alice Lovell Kellogg of the Class of 1903. The income is to be used for undergraduate scholarships. (1967)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest under the will of George W. Kendrick, Jr., in memory of his wife. The income on this fund of $5,362 is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. (1916)

The Misses Kirk Scholarship Fund, now amounting to $1,401, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Elizabeth B. Kirkbride Scholarship Fund was established by a gift of $1,150 from Elizabeth B. Kirkbride of the Class of 1896. The income is to be used for undergraduate scholarships. (1964)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling $11,000 is awarded to an entering student from New England on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of $5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to $5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Alice Low Lowry Memorial Scholarship Fund was established by gifts amounting to $11,438 in memory of Alice Low Lowry of the Class of 1938 by members of her family and friends. The income is to be used for scholarships. (1968)

The Katharine McBride Undergraduate Scholarship Fund was established by a gift of $5,000 made by Gwenn Davis Mitchell, Class of 1954. The income is to be used for scholarships. (1969)

The Gertrude Howard McCormick Scholarship Fund was established by gift of $25,000 by the late Gertrude Howard McCormick. The scholarship, value $1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to $17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to $13,000, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund, now amounting to $25,068, was established by the Class of 1944. The class on its 25th

anniversary in May 1969 increased the fund by $16,600. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to $14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of $25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The New Hampshire Scholarship Fund of $15,000 was established in 1965 by the Spaulding-Potter Charitable Trust. A matching fund was raised by contributions from New Hampshire alumnae. Income from the two funds will be awarded each year to an undergraduate from New Hampshire on the recommendation of the New England Regional Scholarship Committee. (1965)

The Alice F. Newkirk Scholarship Fund was founded by a bequest of $2,500 by Alice F. Newkirk. The income is for scholarships. (1965)

The Mary Frances Nunns Scholarship was established by a bequest of $25,275 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling $10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of $30,000 from the Class of 1922. (1963)

The Fanny R. S. Peabody Scholarship Fund was established by bequest of $177,927 in the will of Fanny R. S. Peabody. The income from the Peabody Fund is awarded to students from the western states. (1943)

The Delia Avery Perkins Scholarship was established by bequest of $58,474 from Delia Avery Perkins of the Class of 1900. Mrs. Perkins was Chairman of the New Jersey Scholarship Committee for a number of years. The income on this fund is to be awarded to students entering from Northern New Jersey. (1965)

The Ethel C. Pfaff Scholarship Fund was established by a bequest of $295,616 from Ethel C. Pfaff of the Class of 1904. The income from this fund is to be awarded to entering freshmen. (1967)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of $5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund, now totalling $6,681, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift from her daughter, Mrs. J. Campbell Harris. The income on this fund of $5,542 is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund of $4,598 is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of $1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at $11,308 in memory of both Anne Powers and her sister, Mrs. Hough (Ethel Powers), by Nancy Hough Smith of the Class of 1925. (1919)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Scholarships were founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to $27,010, the income from which is awarded annually to two students. The James E. Rhoads Memorial Junior Scholarship is awarded to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. The James E. Rhoads Memorial Sophomore Scholarship is awarded to a student who has attended Bryn Mawr College for at least one semester and who also meets the above conditions. (1898)

The Ida E. Richardson, Alice H. Richardson and Edward P. Langley Scholarship Fund was established by bequest of $81,065 under the will of Edward P. Langley. The income is to be used for scholarships. (1970)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of $11,033 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of $50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of $22,952 is awarded to a member of the junior class who shows great distinction of scholarship and character

and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

The Constance Schaar Scholarship Fund, now totalling $7,965, was established in 1964 by her parents and friends in memory of Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

The Scholarship Endowment Fund was established by a gift of $4,300 from Constance E. Flint. The income only is to be used for scholarships. (1970)

The Judith Harris Selig Scholarship Fund was established in memory of Judith Harris Selig of the Class of 1957 by members of her family, classmates and friends. In 1970, the Fund was increased by a further gift of $18,000 from her parents, Dr. and Mrs. Herman S. Harris. The income from the fund, now totaling $30,078, is to be used for undergraduate scholarships. (1968)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to $4,150, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of $5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to $20,682. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Gertrude Slaughter Scholarship Fund was established by bequest of $19,909 by Gertrude Taylor Slaughter of the Class of 1893. The income on this fund is to be used for undergraduate scholarships, preferably to students of Greek or Latin. (1964)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of $16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of $15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling $33,652 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of $3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals $12,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling $8,493. The income from this fund is used for a scholarship for the study of Archaeology. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to $10,660, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Ethel Vick Wallace Townsend Memorial Fund was established by Elbert S. Townsend in memory of his wife, Ethel Vick Wallace

Townsend of the Class of 1908. The income on this fund, held by the Buffalo Foundation, is to be used for undergraduate scholarships. (1967)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from *The Jacob Fussell Byrnes and Mary Byrnes Fund,* which was established in memory of her mother and father by a bequest of $51,513 under the will of Esther Fussell Byrnes. (1948)

The Mildred Clarke Pressinger von Kienbusch Scholarship Fund was established by C. Otto von Kienbusch in memory of his wife, Mildred Clarke Pressinger von Kienbusch, of the Class of 1909. The income from this fund of $25,000 will be awarded each year to a student in need of assistance. (1968)

The Julia Ward Scholarship Fund was established by a gift of $7,075 for a scholarship in memory of Julia Ward of the Class of 1923 by one of her friends and by additional gifts from others. The income on this fund which now amounts to $27,146 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of $25,000 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of $7,513 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of $25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959, Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund of $5,694 will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of $1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of $10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be awarded to a resident Negro student. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of $3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of $5,230 in the will of Rebecca Winsor Evans. The scholarship is to be awarded to a resident Negro student. (1962)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of $5,230 in the will of Ellen Winsor. The scholarship is to be awarded to a resident Negro student. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling $2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of $1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Scholarships for Foreign Students

The Bryn Mawr Canadian Scholarship will be raised and awarded each year by Bryn Mawr alumnae living in Canada. The scholarship, varying in amount, will be awarded to a Canadian student entering either the undergraduate or graduate school. (1965)

The Chinese Scholarship comes in part from the annual income of a fund now totalling $30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of $331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Margaret Y. Kent Scholarship Fund, Class of 1908, was established by bequest of Margaret Y. Kent of the Class of 1908. The income from the fund of $7,000 is to be used to provide scholarship assistance to foreign students. (1967)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value $1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study.*

The Commonwealth Africa Travelling Scholarship was established by a grant of $50,000 from the Thorncroft Fund, Inc. at the request of Helen and Geoffrey de Freitas. The income from this fund will be used to send, for at least six months, a Bryn Mawr graduate to a university or college in Commonwealth Africa, or former British colony in Africa, to teach or to study, with a view to contributing to mutual understanding and the furtherance of scholarship. (1965)

The Gertrude Slaughter Fellowship was established by a bequest of $50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship to be used for a year's study in the United States or abroad. (1964)

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling $3,310 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of $12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of $5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of $5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science,* to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages,* to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 162). (1915)

The Academy of American Poets Poetry Prize of $100 has been recently awarded each year to the student who submits to the Department of English the best poem or group of poems. The award, given by the Academy of American Poets, was first made in 1957.

The Horace Alwyne Prize was established by the Friends of Music of Bryn Mawr College in honor of Horace Alwyne, Professor Emeritus of Music. The award is presented annually to the student who has contributed the most to the musical life of the College. (1970)

The Bain-Swiggett Poetry Prize was established by a gift of $1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts

totalling $2,625 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded in 1946 by a gift of $1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. The fund was increased by bequest of $2,400 by one of her former students. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this fund of $1,970 has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of $2,600 is to be awarded as the Department of History may determine. (1957)

The *Alexandra Peschka Prize* was established in memory of Alexandra Peschka of the Class of 1964 by gifts from her family and friends. The prize of $100 is awarded annually to a member of the freshman or sophomore class for the best piece of imaginative writing in prose. The award will be made by a committee of the Department of English who will consult the terms stated in the deed of gift. (1968)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of $690 may be awarded every two years to a student in Economics. Awarded in 1965. (1938)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Katherine Stains Prize Fund in Classical Literature was established by Katherine G. Stains in memory of her parents, Arthur and Katheryn Stains, and in honor of two excellent twentieth-century scholars of Classical Literature, Richmond Lattimore and Moses Hadas. The income on the fund of $1,000 is to be awarded annually as a prize to an undergraduate student for excellence in Greek Literature, either in the original or in translation. (1969)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904. From the income on the bequest of $500 a prize is to be awarded from time to time to a student in Geology. (1963)

The Esther Walker Award was founded by the bequest of $1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College until her death in 1966. The income only from this gift is to be used. (1961)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of $30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of $10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of $10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of $21,033 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Loan Funds

Bryn Mawr College administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1,500. Students who wish loans may obtain from the Financial Aid Office or the Alumnae Office the necessary blanks which must be accompanied by a letter of recommendation from the Financial Aid Officer. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. The interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or

creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans—to students coming from New Jersey, to students coming from Missouri, to students coming from any other location who have had not less than one year of residence at the College.

b. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is $500. No interest is charged while the student is in college. The interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

b. The maximum amount which can be borrowed for any given academic year is $500.

c. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. The interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

d. Loans are awarded by the Scholarship Committees of the Undergraduate School, the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research.

The second kind of loan program, administered by the College, is based on government funds made available through *The National Defense Education Act (NDEA) Student Loan Program.* Applications for loans must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must subscribe in writing to an oath or affirmation of allegiance to the United States of America. Under the NDEA Student Loan Program, students may borrow up to $1,000 each year, depending on need, and all loans from this source may not exceed a total of $5,000.

Students who, upon graduation, teach on a full-time basis in public or private non-profit elementary and secondary schools and in institutions of higher education are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.

Employment and Vocational Counselling

The Office of Career Planning and Placement is concerned with student and alumna career, summer and self-help job interests.

Students and Alumnae may consult with this Office about careers which match their interests, preparation, and experience, information on specific employers and current job openings, and techniques of job-hunting. Career Planning and Placement also collects, maintains and makes available to employers, credentials including biographical data and faculty and employer references, for those who register with the office.

Students may obtain part-time employment during the school year both on and off campus. Some of the jobs available are clerical, library work, typing, waitressing, child care and sales. Information on summer jobs is collected and made available to those students who are interested in summer work experience. The staff is also available to consult with students on appropriate jobs, employers and job-hunting techniques for summer pre-vocational work experiences. Last year more than half of the undergraduate students worked during the academic year, with a range of earnings from $1.00 to over $900, averaging $160. During the summer of 1969, 66 per cent of the undergraduates chose to work with average earnings for the summer of $500.

Students of foreign citizenship wishing employment should consult the Advisor to Foreign Students whose office is in Dalton Hall.

Bryn Mawr participates in the Federal College Work-Study Program established by the Economic Opportunity Act of 1964. This program provides funds for on and off campus jobs for students who meet the Federal eligibility requirements.

Alumnae Representatives

Officers of the Alumnae Association

President, Mrs. Daniel V. McNamee, Jr., 352 Loudonville Road, Loudonville, New York 12211
First Vice President, Mrs. Booth Hemingway, 353 Old Long Ridge Road, Stamford, Connecticut 06903
Second Vice President, Mrs. Fred Alexander, 1400 Youngsford Road, Gladwyne, Pennsylvania 19035
Third Vice President, Miss Margaret Healy, 905 New Gulph Road, Bryn Mawr 19010
Recording Secretary, Mrs. Sherman Fein, 224 Longmeadow Street, Longmeadow, Massachusetts 01106
Corresponding Secretary, Mrs. Richard E. Fisher, 5140 Pembroke Place, Pittsburgh, Pennsylvania 15232
Treasurer, Mrs. John P. Mason, 350 Warner Road, Wayne, Pennsylvania 19087
Chairman, Alumnae Fund, Mrs. Peter Randall, 20 Laughlin Lane, Philadelphia 19118
Chairman, Selection Committee, Mrs. Henry W. Levinson, 16 East 96th Street, New York City, New York 10028
Chairman, Scholarship & Loan Fund Committee, Mrs. S. Hamill Horne, 1436 Rose Glen Road, Gladwyne, Pennsylvania 19035
Chairman, Wyndham Committee, Mrs. John C. Williams, 605 New Gulph Road, Bryn Mawr 19010

Executive Director, Mrs. Herbert W. Reisner
Executive Secretary, Alumnae Fund, Miss Ellenor Morris
Editor, The Alumnae Bulletin, Mrs. S. Ingalls Hutchinson Wyndham, Bryn Mawr College 19010

Alumnae Directors of Bryn Mawr College

Mrs. Thomas S. Horrocks, 151 Booth Lane, Haverford 19041
Mrs. Samuel H. Paul, 540 East Gravers Lane, Philadelphia 19118
Mrs. Francis L. Pell, 3010 Stenton Avenue, Plymouth Meeting, Pennsylvania 19462
Mrs. Thomas Thacher, Dodgewood Road, Bronx, New York 10471
Mrs. Cornelius C. Vermeule III, 47 Coolidge Hill Road, Cambridge, Massachusetts 02138
Mrs. William Nelson West, 340 Highland Lane, Bryn Mawr 19010

Officers of Alumnae Groups and College Representatives

District I: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut (except Fairfield County)

Councillor, Mrs. Warren Delano, Gerrish Island, Kittery Point, Maine 03905
Information Chairman, Mrs. Charles S. Alden, 96 Larchwood Drive, Cambridge, Massachusetts 02138
Club Presidents:
Boston Mrs. George S. Reichenbach, R. F. D. 1, Carlisle, Massachusetts 01741
Hartford Mrs. H. Phillips Jesup, 183 Fox Den Road, Bristol, Connecticut 06010
New Haven Mrs. Linda Rubin Wolf, 19 Brownell Street, New Haven, Connecticut 06511
Rhode Island . . . Mrs. Clyde S. Wilson, 64 Red Chimney Drive, Warwick, Rhode Island 02886

District II: New York, Fairfield County (Connecticut), Northern New Jersey

Councillor, Mrs. David S. Cooper, 225 Kelburne Avenue, Philipse Manor North, Tarrytown, New York 10593
Information Chairman, Mrs. Merle J. Bushkin, 86 Caterson Terrace, Hartsdale, New York 10530
Club Presidents:
Fairfield County . Mrs. Alan L. Streusand, 33 Hillbrook Road, Wilton, Connecticut 06897
New York Mrs. Joseph M. Schack, 127 W. 12th Street, New York City, New York 10011
Long Island Mrs. John Bierwirth, Turkey Point, Albro Lane, Cedarhurst, New York 11516
Westchester . . . Mrs. Howard Taylor, 2 Walworth Street, Scarsdale, New York 10583
Albany, Troy, Schenectady . . Mrs. Douglass C. Coupe, 7 Chestnut Hill North, Loudonville, New York 12211
Syracuse Mrs. William L. Broad, Field Place, Mott Road, Fayetteville, New York 13066

Rochester Mrs. Philip E. VanNewkirk,
48 Woodland Park, Rochester, New York 14610
Princeton Mrs. Geoffrey Nunes, 347 Cold Soil Road,
Princeton, New Jersey 08540
Northern
New Jersey. . . Mrs. Hugo Pfaltz, Jr.
118 Prospect Street, Summit, New Jersey 07901

District III: Pennsylvania, Southern New Jersey, Delaware

Councillor, Mrs. Marcus Aaron, 1925 Wightman Street, Pittsburgh, Pennsylvania 15217
Information Chairman, Mrs. B. Herbert Lee, 226 Winsor Lane, Haverford, Pennsylvania 19041
Club Presidents:
Philadelphia . . . Mrs. C. W. Hart,
1735 Lombard Street, Philadelphia 19146
Central
Pennsylvania . Mrs. Frank M. Masters, Jr.,
R. D. 1, Linglestown, Pennsylvania 17112
Western
Pennsylvania . Mrs. John K. M. Baiz, 400 Shady Avenue,
Pittsburgh, Pennsylvania 15206
Delaware Mrs. Harold G. Brown, Jr.,
2404 Willard Street, Wilmington, Delaware 19806

District IV: Maryland, Virginia, West Virginia, District of Columbia

Councillor, Mrs. E. Harrison Clark, 1555 35th Street N. W., Washington, D. C. 20007
Information Chairman, Mrs. Richard A. Eliasberg, 8306 Burning Wood Road, Baltimore, Maryland 21208
Club Presidents:
Washington, . . . Mrs. Laurence Hewes, 1821 Randolph Street N. W.,
D. C. Washington, D. C. 20011
Baltimore Mrs. Charles MacIntosh,
215 Edgevale Road, Baltimore, Maryland 21210
Richmond Mrs. Robert W. Claiborne,
1118 Grove Avenue, Richmond, Virginia 23220

District V: North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Arkansas, Tennessee

Councillor, Mrs. Jon J. Johnston, 4362 Wieuca Road N. E., Atlanta, Georgia 30305

Information Chairman, Mrs. Allen H. Loyd, Glendale Road, Union, South Carolina 29379

Club Presidents:

Piedmont Dr. Dorothea Cross Leighton, 532 Dogwood Drive, Chapel Hill, North Carolina 27514

Louisiana Mrs. Eugene Brierre, 1508 Pine Street, New Orleans, Louisiana 70118

District VI: Ohio, Indiana, Kentucky, Michigan

Councillor, Mrs. Richard H. Allen, 3822 Barker Road, Cincinnati, Ohio 45229

Information Chairman, Mrs. John B. Chewning, 7765 Graves Road, Cincinnati, Ohio 45243

Club Presidents:

Indiana Mrs. Charles B. Hicks, 2225 South Wabash Avenue, Kokomo, Indiana 46901

Detroit Mrs. Bruce Steinhauer, 1304 Bishop Road, Grosse Pointe, Michigan 48230

Ann Arbor Mrs. George C. Cameron, 1515 Ottawa Avenue, Ann Arbor, Michigan 48105

Cincinnati Mrs. David Reichert, 2471 Brookwood Lane, Cincinnati, Ohio 45237

Cleveland Mrs. Pierre Lalire, White Hill Road, R. D. 3, Willoughby, Ohio 44094

Columbus Mrs. H. Roy Chope, 3885 Woodbridge Road, Columbus, Ohio 43221

District VII: Illinois, Iowa, Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Missouri

Councillor, Mrs. C. Dennis Joerger, 7136 Kingsbury Boulevard, University City, Missouri 63130

Information Chairman, Mrs. John H. Morrison, 2715 Payne Street, Evanston, Illinois 60201

Chicago Mrs. Fred P. Slivon, Jr. 512 Forest Cove Road, Lake Bluff, Illinois 60044

St. Louis. Mrs. Philip R. Gale, 125 Orchard Road, St. Louis, Missouri 63119

District VIII: Colorado, Arizona, New Mexico, Texas, Oklahoma

Councillor, Mrs. Kenneth R. Blum, 2740 Flora Place, Denver, Colorado 80210
Information Chairman, Mrs. Sigmund Harpman, Jr., 6 Colony Lane, Oklahoma City, Oklahoma 73116
Club Presidents:
Denver Mrs. David J. Varnes,
40 South Holland Street, Denver, Colorado 80226
Tucson Mrs. Edwin M. Gaines,
5323 Camino Real, Tucson, Arizona 85718
Dallas Mrs. Robert L. Lichten,
6338 Aberdeen Avenue, Dallas, Texas 75230
Houston Mrs. Thomas W. Houghton,
4722 Oakshire, Houston, Texas 77027

District IX: California, Nevada, Utah, Hawaii

Councillor, Mrs. Jackson T. Witherspoon, 1255 Hamilton Avenue, Palo Alto, California 94301
Information Chairman, Mrs. Christos Papatheodorou, 10671 Chalon Road, Los Angeles, California 90024
Club Presidents:
Northern
California . . . Mrs. Ryo Arai,
309 Marks Road, Danville, California 95426
Southern
California . . . Mrs. Allyn Kreps, 1315 Fifth Street,
Manhattan Beach, California 90266

District X: Washington, Oregon, Idaho, Montana, Wyoming, Alaska

Councillor and Information Chairman, Mrs. Dan D. Pulsifer, 10006 48th Street N. E., Seattle, Washington 98125
Club Presidents:
Portland Mrs. Alan M. Director,
6210 S. W. Thomas, Portland, Oregon 97221
Seattle Mrs. John L. Eddy Jr., 2628 82nd Avenue N. E.,
Bellevue, Washington 98004

FOREIGN

Argentina:
Miss Ana Maria Barrenechea, Coronel Diaz 1815, 80 "A", Buenos Aires

Canada:
Mrs. William A. Wheatstone, 6 Sherin Court, Weston, Ontario
Mrs. David B. Morgan-Grenville, 87 Holton Avenue, Westmount 6, P.Q.
Mrs. C. Patrick Nixon, 431 Roxborough Avenue, Rockcliffe Park, Ottawa 2
Mrs. David G. Carter, 49 Rosemount Avenue, Westmount 217, Montreal, P.Q.

Denmark:
Mrs. Harald Vestergaard, Ornekulsvej 11, Charlottenlund

England:
Mrs. James A. Cochrane, Malthouse, Corsley, Warminster, Wiltshire
Mrs. Webster Plass, c/o British Museum, London. W. C. 1

France:
Mme Jean Maheu, 1 Rue Clovis, Paris V
Mrs. Stanislas Mangin, 49 Rue de Bellechasse, Paris VII

Germany:
Mrs. Hans Loening, Fischerhude bei 2801, Bremen

Greece:
Miss Elizabeth Douli, Korae 18, Nea Smyrne, Athens

India:
Miss Harsimran Malik, 28 Golf Links, New Delhi 3

Italy:
Mrs. Enrico Berra, Piazzale Biancomanis 2, Milan

Japan:
Miss Taki Fujita, 20-4, 2-chome, Higashi-Nakana, Nakano-ku, Tokyo
Miss Ai Hoshino, 20-4, 2-chome, Higashi-Nakana, Nakano-ku, Tokyo

Mexico:
Mrs. Arturo Gomez, Liverpool 149-102, Mexico 6, D.F.

Netherlands West Indies:
Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba

Norway:
Mrs. Harold Sommerfeldt, Hoff Terace 4, Oslo

Philippine Islands:
Mrs. Marcial C. Reyes, Jr., 14 Ilagan Street San Francisco del Monte, Quezon City

Spain:
Mrs. E. Teisceira deMattos, Calle de Triana 2, Madrid

Turkey:
Miss Suna Kili, Robert College, Bebek, Istanbul

Venezuela:
Mrs. Oscar deSchnell, Apartado 69, Caracas

Index

Absence
 from Classes, 41
 from College, 31
Academic Awards, 162-165
Academic Honors, 46
Academic Honor System, 40-41
Academic Schedule, 4-5
Academic Standards, 40-41
Acreage, 22
Administration, Officers of, 8, 17
Admission, 26-31
Advanced Placement, 28-29
Advising, 40
Alliance for Political Affairs, 24
Alumnae Officers, 171
Alumnae Representatives, 171-176
American History, 93-98
Anthropology, 54-56
Anthropology Museum and
 Laboratory, 33-34
Application for Admission, 27
Archaeology, Classical and
 Near Eastern, 62-64
Archaeology Collections, 33
Arts Council, 24
Athletic Association, 24
Attendance at Classes, 41
Auxiliary Libraries, 32
Avignon, Summer Institute, 50, 83

Bachelor of Arts Degree,
 Requirements for, 44-48
Biology, 57-60
Biochemistry, 59, 140
Black Students' Organization, 25
Board of Directors, 6
 Committees of, 7
Boyce Collection, 33
Buildings and Grounds Committee,
 Directors, 7

Canaday, Mariam Coffin,
 Library, 32-33
Canaday, Ward, Collection, 34
Career Planning and Placement,
 Office of, 170
Charges, Minor Fees, 39
Charges, Reduction of for
 Absence, 38
Chemistry, 60-62
Child Study Institute, 20, 70
Classical and Near Eastern
 Archaeology, 62-64
College Entrance
 Examination Board, 27
College History, 21-22
Computer Center, 35
Conduct, 40-41
Cooperation with Neighboring
 Institutions, 22-23, 33, 47
Coordination in the Sciences,
 Plan for, 49
Correspondence, Names for, 2
Council of the Undergraduate
 College, 41
Course Numbers, Key to, 53
Creative Work in the Arts, 50
Credit for Work at Other
 Institutions, 29, 47
Curriculum, 44-52
Curriculum Committee, 25
Curtis Collection, 33

Deans, 40
Directors, Board of, 6
 Committees of, 7
District Councilors, 172-175

Early Decision Plan, 28
Economics, 65-69
Education, Department of, 70-72
Employment and Vocational
 Counseling, 170
English, 73-79
Entrance Requirements, 26-30
Entrance Tests, 27
European Fellowship, 162
Excavations, 64
Executive Committee, Directors, 7
Expenses, 38-39

Faculty, 8-16
Fee, Residence and Tuition, 38-39
Finance Committee, Directors, 7
Financial Aid, 144-166
Fine Art, 141
Flexner Lectures, 23
Foreign Students, 17, 30, 161
French, 80-83
French House, 50
Freshmen, Arrival of, 40

General Deposit, 38
Geology, 84-86
German, 87-89
German House, 50
Goldman, Hetty, Collection, 33
Goodhart, Medieval Library, 32
Government, Student, 23-24
Grades, 46-47
Graduate School, 21
Greek, 89-91
Guidance
 Academic, 40
 Vocational, 170

Haverford College, Cooperation
with, 22-23, 33, 47
Health, 41-43
Health Insurance (Student's
Reimbursement Plan), 43
History, Department of, 91-98
History of Art, 99-100
History of Religion, 100-103
History of Science, 97
Honors, Degree with, 47
Honors Work, 46
Hygiene, 48

Infirmary, 41-43
Insurance
Health, 43
Personal Property, 43
Interdepartmental
Courses, 49-50, 139-140
Interfaith Association, 24
Intercollegiate Center for
Classical Studies in Rome, 52
Italian, 103-104

Junior Year Abroad, 51

King Collection, 33

Laboratories, 34
Language Examinations, 45
Language Houses, 35, 50
Language Laboratory, 35
Language Requirement, 45
Latin, 105-107
League, 24
Leaves of Absence, 31
Libraries, 32-33
Library Committee, Directors, 7
Loan Funds, 167-169

Madrid, Summer Institute, 51
Major and Allied Work, 45-46
Mathematics, 107-109
Medical School Scholarships, 166
Music, 109-112

NDEA Student Loan Program, 169
Non-resident Students, 37

Officers
Administration, 8, 17
Alumnae Association, 171
Board of Directors, 6

Performing Arts, 141
Phebe Anna Thorne School, 20, 70
Philosophy, 113-116
Physical Education, 48, 142-143
Physical Examination, 41-42
Physics, 117-119
Placement Tests, 28-29
Political Science, 119-126
Premedical Preparation, 48
Presidents of the College, 22
Prizes, 162-165
Psychology, 127-129

Readmission, 30
Religious Life Committee,
Directors, 7
Requirements for Admission, 26-31
Requirements for the
A.B. Degree, 44-48
Residence, 35-37
During Vacations, 37
Halls, 35-36
Rules for, 36-37
Riegel Museum, 33
Russian, 130-131

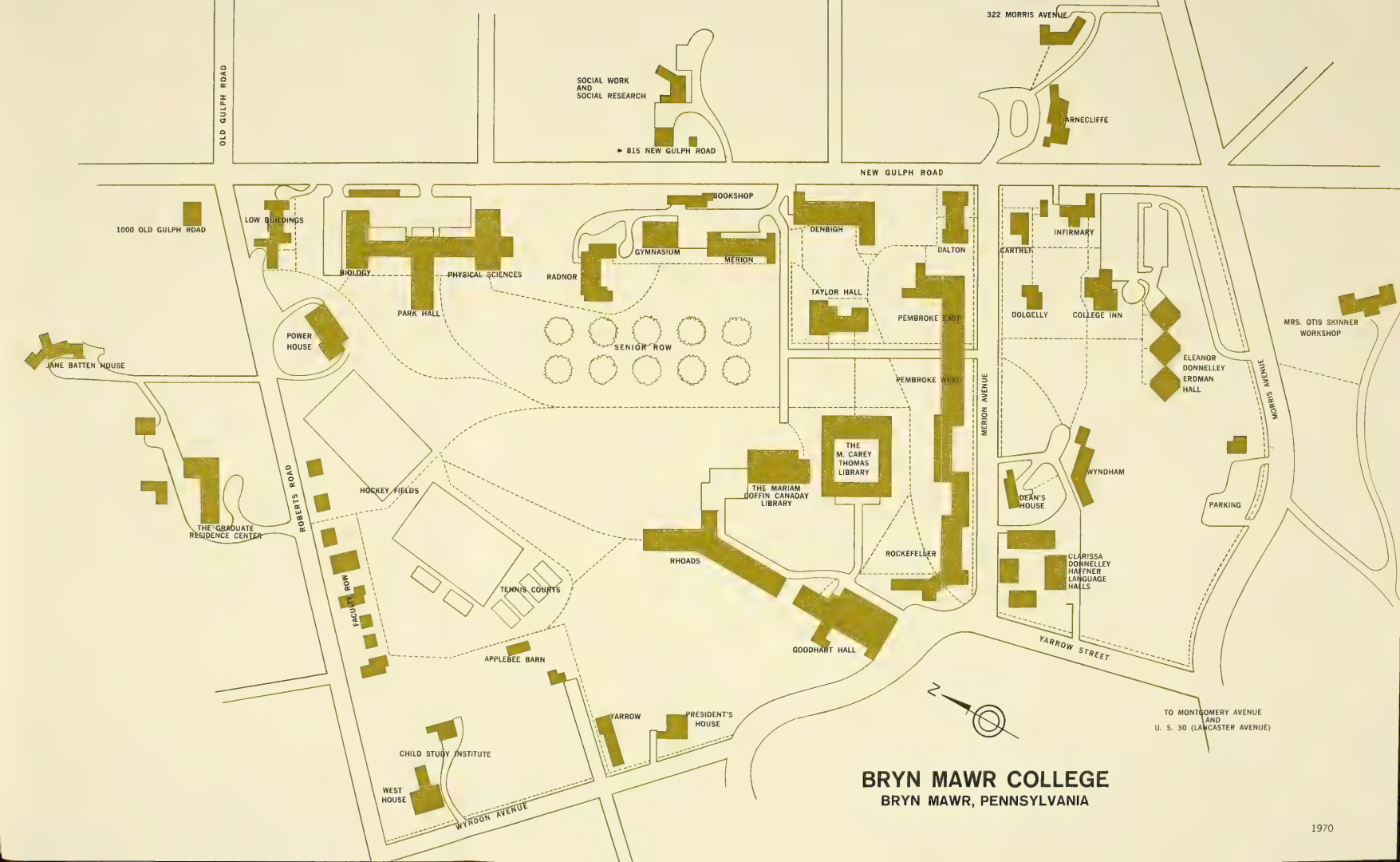
Scholarships, 51, 145-165
Science Center, 34-35
Sciences, Plan for
Coordination in, 49
Secondary School Studies,
Program of, 26
Self-Government Association, 23-24
Senior Conference, 46
Shaw Lectures, 23
Skinner Theater Workshop, 23
Sociology, 132-135
Spanish, 136-138
Spanish House, 50
Staff, 16-20
Student Organizations, 23-25
Students' Association for
Self-Government, 23-24
Students' Loan Fund, 167
Summer Institutes Abroad, 50-51
Summer School Work, 47
Supplementary Requirements for
the Degree, 48
Swarthmore College,
Cooperation with, 22-23, 33, 47

Teaching, Preparation for, 49
Thomas, M. Carey, Library, 32-33
Transfer Students, 29-30
Trustees, 6
Tuition, 38-39

Undergraduate Association, 24
Union Library Catalogue, 33
U. S. Army Map Collection, 35

Vacations, Residence during, 37
Vaux Collections, 33-35
Vocational Guidance, 170

Withdrawal from College, 30
Woodward, Quita,
Memorial Library, 33
Work-Study Program, 170



BRYN MAWR COLLEGE

BRYN MAWR, PENNSYLVANIA

1970

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43 – Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road. Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Penn Central Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

BRYN MAWR

Undergraduate College

1970-71

2675

IAA